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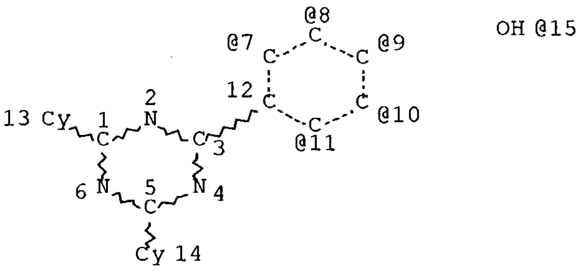

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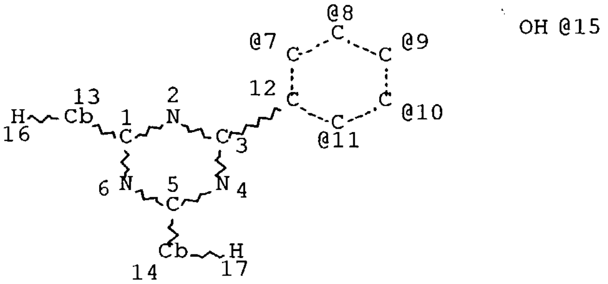

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DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS  17

STEREO ATTRIBUTES: NONE
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compd.

     FILE 'HCAPLUS' ENTERED AT 12:21:56 ON 05 MAR 2004
L6           138 S L5/P
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L7          119 S L6 AND PAT?/DT <- Only patent docs.
L8           40 S L7 NOT (PY=>2001 OR PD=>20010622) <- Restricted by date

L8   ANSWER 1 OF 40  HCAPLUS  COPYRIGHT 2004 ACS on STN
ED   Entered STN:  04 Oct 2000
ACCESSION NUMBER:         2000:697361  HCAPLUS Full-text
DOCUMENT NUMBER:          133:288772
TITLE:                    Polymer UV absorber for silver halide
                          photographic material
INVENTOR(S):              Ishizuka, Takahiro; Deguchi, Yasuaki
PATENT ASSIGNEE(S):       Fuji Photo Film Co., Ltd., Japan
SOURCE:                   Jpn. Kokai Tokkyo Koho, 33 pp.
                          CODEN: JKXXAF
DOCUMENT TYPE:            Patent
LANGUAGE:                 Japanese
FAMILY ACC. NUM. COUNT:   1
PATENT INFORMATION:

     PATENT NO.        KIND  DATE          APPLICATION NO.   DATE
     ---------------   ----  --------      ---------------   --------
     JP 2000273437      A2   20001003      JP 1999-83123     19990326
PRIORITY APPLN. INFO.:                  JP 1999-83123       19990326
GI
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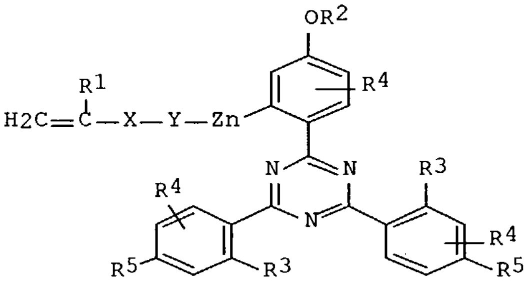

I

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AB    The polymer UV absorber contains a repeating unit represented by I (R1 = H,
      C1-4 alkyl, etc.; X = COO, CONH, etc.; Y = alkylene, arylene, etc.; Z = O,
      COO, OCOO, NHCOO; R2 = alkyl, alkenyl, cycloalkyl, etc.; R3,4 = H, alkyl;
      R5 = H, alkyl, alkenyl, etc.; n = 0, 1).  An organic material and a Ag
      halide photog. material containing the polymer UV absorber are also
      claimed.  The use of this polymer UV absorber improves lightfastness of
      dyes contained in the photog. material.
IT    299956-40-4P
      RL: SPN (Synthetic preparation); TEM (Technical or engineered
      material use); PREP (Preparation); USES (Uses)
         (polymer UV absorber for silver halide photog. material)

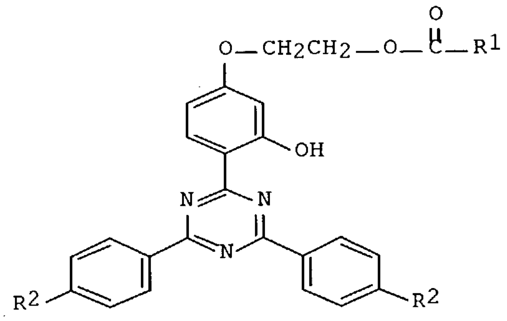
L8   ANSWER 2 OF 40  HCAPLUS  COPYRIGHT 2004 ACS on STN
ED   Entered STN:  27 Sep 2000
ACCESSION NUMBER:         2000:677421  HCAPLUS Full-text
DOCUMENT NUMBER:          133:253642
TITLE:                    Thermoplastic aromatic polycarbonate resin
                          coextruded articles having good weather and
```

discoloration resistance

INVENTOR(S): Tobita, Etsuo; Ishikawa, Shinichi; Ayabe, Takashi; Kawaragi, Saeko
PATENT ASSIGNEE(S): Asahi Denka Kogyo K. K., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.
CODEN: JKXXAF
DOCUMENT TYPE: **Patent**
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000264977	A2	20000926	JP 1999-65404	19990311

PRIORITY APPLN. INFO.: JP 1999-65404 19990311
OTHER SOURCE(S): MARPAT 133:253642
GI



I

AB The coextruded articles comprise a thermoplastic aromatic polycarbonate resin core layer, and ≥1 thermoplastic aromatic polycarbonate resin cover layer containing 0.1-25 parts (based on 100 parts polycarboante resin) I (R1 = C1-17 alkyl; R2 = H, C1-4 alkyl). Thus, an article comprising a 2 mm-thick bisphenol A polycarbonate core layer and a 50 μm-thick bisphenol A polycarbonate cover layer containing 10% I (R1 = Me, R2 = H) showed good yellowing resistance against 1000 h UV irradiation

IT **184782-88-5P**
RL: IMF (Industrial manufacture); PREP (Preparation)
(triazine light stabilizers for weather- and discoloration-resistant aromatic polycarbonate resin coextruded articles)

IT **290298-97-4P**
RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP (Preparation); USES (Uses)
(triazine light stabilizers for weather- and discoloration-resistant aromatic polycarbonate resin coextruded articles)

IT **38369-95-8P**
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(triazine light stabilizers for weather- and discoloration-resistant aromatic polycarbonate resin coextruded articles)

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L8   ANSWER 3 OF 40  HCAPLUS  COPYRIGHT 2004 ACS on STN
ED   Entered STN:  17 Mar 2000
ACCESSION NUMBER:          2000:175844  HCAPLUS Full-text
DOCUMENT NUMBER:           132:223867
TITLE:                     Light-stable chromophore system
INVENTOR(S):               Eldin, Sameer
PATENT ASSIGNEE(S):        Ciba Specialty Chemicals Holding Inc., Switz.
SOURCE:                    PCT Int. Appl., 70 pp.
                           CODEN: PIXXD2
DOCUMENT TYPE:             Patent
LANGUAGE:                  German
FAMILY ACC. NUM. COUNT:    1
PATENT INFORMATION:

     PATENT NO.          KIND  DATE          APPLICATION NO.   DATE
     ---------------     ----  --------      ---------------   --------
     WO 2000014126        A1   20000316      WO 1999-EP6323    19990827
         W:  AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR,
             CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU,
             ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT,
             LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD,
             SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU,
             ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
        RW:  GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE,
             DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ,
             CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
     AU 9958560           A1   20000327      AU 1999-58560     19990827
PRIORITY APPLN. INFO.:                      CH 1998-1845     A 19980909
                                            WO 1999-EP6323   W 19990827
AB   The system contains the following in the order given: (a) a chromophore
     layer (i.e., a pigmented polymer layer or a layer of a polymer containing
     copolymd. dye residues), (b) a light protection agent layer, (c) an oxygen
     barrier layer, and (d) optionally a polymer which forms a protective layer
     of varnish (i.e., a clearcoat).  Such systems provide improved
     lightfastness of, e.g., automobile finishes or photog. prints.  The a and b
     layers may comprise poly(vinyl alc.) etherified or esterified with a
     colorant and with a light stabilizer, resp.
IT   148236-55-9P, 2,4,6-Tris[2-hydroxy-4-(3-butoxy-2-
     hydroxypropoxy)phenyl]-s-triazine
     RL: IMF (Industrial manufacture); RCT (Reactant); PREP
     (Preparation); RACT (Reactant or reagent)
        (protection of colored layers against light and air)
REFERENCE COUNT:           3     THERE ARE 3 CITED REFERENCES AVAILABLE FOR
                                 THIS RECORD. ALL CITATIONS AVAILABLE IN
                                 THE RE FORMAT

L8   ANSWER 4 OF 40  HCAPLUS  COPYRIGHT 2004 ACS on STN
ED   Entered STN:  17 Mar 2000
ACCESSION NUMBER:          2000:175801  HCAPLUS Full-text
DOCUMENT NUMBER:           132:195212
TITLE:                     Process for making 2,4-dihydroxyphenyl and
                           2-hydroxy-4-alkoxyphenyl substituted triazine
                           compounds
INVENTOR(S):               Gupta, Ram B.; Jakiela, Dennis J.; Venimadhavan,
                           Sampath; Cappadona, Russell C.; Pai, Venkatrao
                           K.
PATENT ASSIGNEE(S):        Cytec Technology Corp., USA
SOURCE:                    PCT Int. Appl., 36 pp.
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                         CODEN: PIXXD2
DOCUMENT TYPE:           Patent
LANGUAGE:                English
FAMILY ACC. NUM. COUNT:  1
PATENT INFORMATION:

     PATENT NO.        KIND  DATE          APPLICATION NO.   DATE
     ---------------   ----  --------      ---------------   --------
     WO 2000014076      A1   20000316      WO 1999-US20170   19990902
         W:  AE, AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CU, CZ, EE,
             GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR,
             KZ, LC, LK, LR, LS, LT, LV, MD, MG, MK, MN, MW, MX, NO, NZ,
             PL, RO, RU, SD, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ,
             VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE,
             DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ,
             CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
     AU 9959073         A1   20000327      AU 1999-59073     19990902
PRIORITY APPLN. INFO.:                  US 1998-99312P    P  19980904
                                        WO 1999-US20170   W  19990902
OTHER SOURCE(S):         MARPAT 132:195212
AB    Mono- and bis-(2-hydroxy-4-alkoxyphenyl) substituted triazines, mono- and
      bis-(2,4-bishydroxyphenyl) substituted triazines, and mixts. thereof,
      useful as UV stabilizers, are prepared by reaction of dihalogenated
      triazines with aromatic compds.
IT    1668-53-7P 25023-99-8P 253133-71-0P
      260249-68-1P 260249-70-5P 260249-71-6P
      RL: IMF (Industrial manufacture); PREP (Preparation)
         (preparation of triaryltriazine compds. with 2,4-dihydroxyphenyl
         groups)
REFERENCE COUNT:         8      THERE ARE 8 CITED REFERENCES AVAILABLE FOR
                                THIS RECORD. ALL CITATIONS AVAILABLE IN
                                THE RE FORMAT

L8   ANSWER 5 OF 40  HCAPLUS  COPYRIGHT 2004 ACS on STN
ED   Entered STN:  17 Dec 1999
ACCESSION NUMBER:        1999:795537  HCAPLUS Full-text
DOCUMENT NUMBER:         132:36913
TITLE:                   Process for improving the photochemical and
                         thermal stability of dyeings and printings on
                         polyester fibrous materials
INVENTOR(S):             Adam, Jean-Marie; Bacher, Jean-Pierre
PATENT ASSIGNEE(S):      Ciba Specialty Chemicals Holding Inc., Switz.
SOURCE:                  Eur. Pat. Appl., 9 pp.
                         CODEN: EPXXDW
DOCUMENT TYPE:           Patent
LANGUAGE:                German
FAMILY ACC. NUM. COUNT:  1
PATENT INFORMATION:

     PATENT NO.        KIND  DATE          APPLICATION NO.   DATE
     ---------------   ----  --------      ---------------   --------
     EP 964096          A2   19991215      EP 1999-810477    19990602
         R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC,
             PT, IE, SI, LT, LV, FI, RO
     JP 2000054278      A2   20000222      JP 1999-158921    19990607
     ZA 9903873         A    19991213      ZA 1999-3873      19990609
     KR 2000006045      A    20000125      KR 1999-21415     19990609
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AU 9934988	A1	19991223	AU 1999-988		19990610
BR 9902231	A	20000321	BR 1999-2231		19990610
PRIORITY APPLN. INFO.:			EP 1998-810533	A	19980611

OTHER SOURCE(S): MARPAT 132:36913

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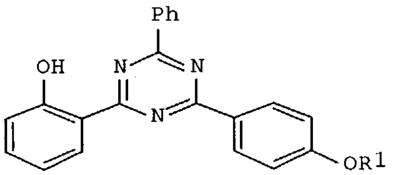

I

AB The photochem. and thermal stability of dyeings and and printings on polyester textiles are improved by treatment with compds. having the structure I, where R = C1-4-alkyl. Thus, thionyl chloride was added dropwise to a mixture containing p-anisic acid, dioxane, and DMF, and, after heating for 90 min at 55°, the dioxane was distilled off to reach a temperature of 115°. After adding salicylamide, the melt was stirred for 75 min at 120°, cooled to 100°, mixed with dioxane and treated with benzamidine chlorohydrate, sodium methylate and methanol to give I, R = Me, which was milled with small quartz beads in water containing a condensation product of naphthalenesulfonic acid and formaldehyde. The quartz beads were separated from the dispersion and water was added to give a formulation containing 10% I, R = Me. A piece of polyester tricot was dyed at 130° using goods-liquor ratio 1:10 in a aqueous dyebath containing ammonium sulfate, com. leveling agent, the above formulation, and 4 disperse dyes. The pH of the dyebath was adjusted to pH 5 with acetic acid. The fabric was rinsed with hot and cold water and subjected to a reductive purification by treatment in a liquor containing sodium hydroxide and sodium dithionite. A gray-colored fabric with good general fastness, especially very good heat and lightfastness, was obtained.

IT **154825-62-4P 252285-60-2P 252285-61-3P 252285-62-4P**
RL: MOA (Modifier or additive use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
(improving photochem. and thermal stability of dyeings and printings on polyester textiles using 2-[4-(4-alkoxyphenyl)-6-phenyl-1,3,5-triazin-2-yl]phenols)

L8 ANSWER 6 OF 40 HCAPLUS COPYRIGHT 2004 ACS on STN
ED Entered STN: 08 Jul 1999
ACCESSION NUMBER: 1999:421171 HCAPLUS Full-text
DOCUMENT NUMBER: 131:74460
TITLE: Weather- and coloration-resistant polymers
INVENTOR(S): Tobita, Etsuo; Nanbu, Yoko; Ishikawa, Shinichi; Ayabe, Keishi
PATENT ASSIGNEE(S): Asahi Denka Kogyo K. K., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.
CODEN: JKXXAF
DOCUMENT TYPE: **Patent**
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11181304	A2	19990706	JP 1998-265870	19980921

PRIORITY APPLN. INFO.: JP 1997-294827 19971013

OTHER SOURCE(S): MARPAT 131:74460

AB Polymers (100 parts) contain 0.001-10 parts triaryltriazines having (meth)acryloyloxy groups, such as 2-(2-hydroxy-4-(2-methacryloyloxyethoxy)phenyl)-4,6-diphenyl-s-triazine (I). Thus, 100 parts bisphenol A polycarbonate (II) containing 10 parts I and II were coextruded to prepare a laminate.

IT **176225-22-2P**

RL: IMF (Industrial manufacture); MOA (Modifier or **additive** use); PREP (Preparation); USES (Uses)

(UV absorbers; polymers containing triaryltriazines **having** (meth)acryloyloxy groups as UV absorbers)

IT **38369-95-8P 184782-88-5P**

RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)

(polymers containing triaryltriazines having (meth)acryloyloxy groups as UV absorbers)

L8 ANSWER 7 OF 40 HCAPLUS COPYRIGHT 2004 ACS on STN

ED Entered STN: 19 Mar 1999

ACCESSION NUMBER:	1999:182560 HCAPLUS Full-text
DOCUMENT NUMBER:	130:283116
TITLE:	Triazine compounds, UV absorbers therefrom, fibers or polymer compositions containing the absorbers, and discoloration-, heat-, and weather-resistant films or coatings therefrom
INVENTOR(S):	Tobita, Etsuo; Nanbu, Yoko; Ishikawa, Shinichi; Ayabe, Keishi
PATENT ASSIGNEE(S):	Asahi Denka Kogyo K. K., Japan
SOURCE:	Jpn. Kokai Tokkyo Koho, 13 pp. CODEN: JKXXAF
DOCUMENT TYPE:	**Patent**
LANGUAGE:	Japanese
FAMILY ACC. NUM. COUNT:	1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11071356	A2	19990316	JP 1997-249723	19970829

PRIORITY APPLN. INFO.: JP 1997-249723 19970829

OTHER SOURCE(S): MARPAT 130:283116

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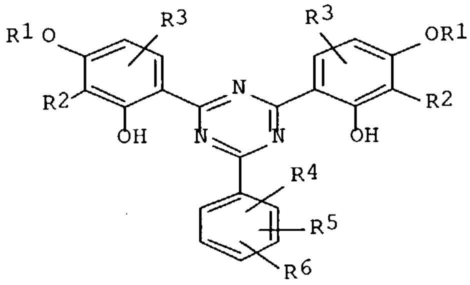


I

AB The triazines are represented as I [R1 = C1-12 alkyl, C3-8 cycloalkyl, C3-8 alkenyl, C6-18 aryl, alkaryl, aralkyl (these groups may be substituted with OH, halo, C1-12 alkyl, or alkoxy and/or interrupted by O, S, CO, ester, amide, or imino); R2 = C1-8 alkyl, C3-8 alkenyl; R3-R6 = H, halo, OH, C1-12 alkyl, alkoxy, alkoxycarbonyl, aralkyl]. Thus, 2,4-dichloro-6-(2,4-dimethylphenyl)- s-triazine reacted with 2-methylresorcinol and MeI to give I (R1 = R2 = Me; R3 = R6 = H; R4 = 2-Me; R5 = 4-Me), 10 parts of which was mixed with 100 parts bisphenol A polycarbonate and coextruded with a resin for a substrate. The resulting laminate showed color difference 7.1 after irradiation with a high-pressure Hg lamp for 2 wk.

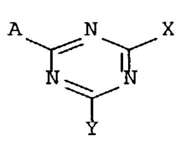
IT **221653-84-5P**
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(intermediate; preparation of triazine compds. as UV absorbers)

IT **222529-65-9P 222529-68-2P 222529-69-3P**
222529-70-6P 222529-71-7P 222529-72-8P
RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP (Preparation); USES (Uses)
(triazine compds. as UV absorbers for discoloration-, heat-, and weather-resistant films or coatings)

L8 ANSWER 8 OF 40 HCAPLUS COPYRIGHT 2004 ACS on STN
ED Entered STN: 19 Mar 1999
ACCESSION NUMBER: 1999:182559 HCAPLUS Full-text
DOCUMENT NUMBER: 130:253785
TITLE: Triazine compounds, UV absorbers therefrom, polymer compositions containing the absorbers, and discoloration-, heat-, and weather-resistant films or coatings therefrom
INVENTOR(S): Tobita, Etsuo; Nanbu, Yoko; Ishikawa, Shinichi; Ayabe, Keishi
PATENT ASSIGNEE(S): Asahi Denka Kogyo K. K., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 13 pp.
CODEN: JKXXAF
DOCUMENT TYPE: **Patent**
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11071355	A2	19990316	JP 1997-249722	19970829

PRIORITY APPLN. INFO.: JP 1997-249722 19970829
OTHER SOURCE(S): MARPAT 130:253785
GI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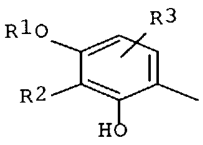
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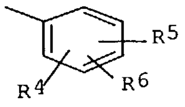

C

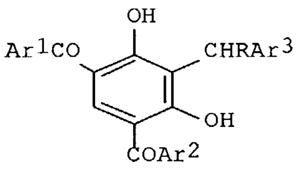
AB Triazines are expressed by compds. I [A = ring B; X, Y = ring B, C; ring B = 2-OH-, 3-R2-, 4-R1O-, and R3-substituted Ph; ring C = R4, R5, R6-substituted Ph; R1 = (meth)acryloyl- or glycidyloxy- substituted C1-25 alkyl (this alkyl may be substituted with OH, C1-8 alkoxy, or acyloxy and inserted with O, S, carbonyl, ester, amide, imino); R2 = C1-8 alkyl; R3-R6 = H, halo, OH, C1-12 alkyl, alkenyl, alkoxy(carbonyl), arylalkyl (the alkyl, alkoxy(carbonyl), arylalkyl may be substituted with OH, halo, C1-12 alkyl, alkoxy, SO3H, glycidyloxy, CN, NCO, (meth)acryloyl and inserted with O, S, carbonyl, ester, amide, imino)]. Thus, 2-hydroxy-4,6-bis(4-methylphenyl)-s-triazine was reacted with thionyl chloride and subsequently with 2-methylresorcinol and glycidyl methacrylate to give I (X = Y = p-tolyl; A = Ph substituted with OH, Me, and H2C:CMeCO2CH2C(OH)HCH2O at 2,3,4-positions, resp.), 10 parts of which was mixed with 100 parts bisphenol A polycarbonate and coextruded with a resin substrate. The laminate showed color difference 7.0 after irradiation with a high-pressure Hg lamp for 2 wk.

IT **221653-82-3DP**, reaction product with bromoethanol and methacrylic acid **221653-84-5DP**, reaction product with glycidyloxyheptapropoxyglycidyl
RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP (Preparation); USES (Uses)
(UV absorber; triazine compds. as UV absorbers for discoloration-, heat-, and weather-resistant films or coatings)

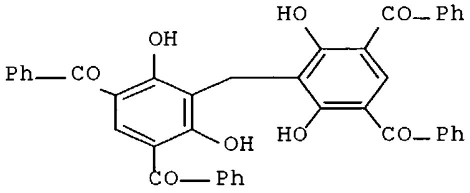
L8 ANSWER 9 OF 40 HCAPLUS COPYRIGHT 2004 ACS on STN
ED Entered STN: 29 Jun 1998
ACCESSION NUMBER: 1998:397829 HCAPLUS Full-text
DOCUMENT NUMBER: 129:40976
TITLE: High molecular weight dibenzoylresorcinol UV absorbers
INVENTOR(S): Pickett, James Edward; Simonian, Amy Kathleen
PATENT ASSIGNEE(S): General Electric Co., USA
SOURCE: U.S., 8 pp.
CODEN: USXXAM
DOCUMENT TYPE: **Patent**
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5763674	A	19980609	US 1996-762644	19961209
US 5905172	A	19990518	US 1997-963814	19971104
JP 10251191	A2	19980922	JP 1997-331549	19971202
EP 846673	A1	19980610	EP 1997-309849	19971208
EP 846673	B1	20001227		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
US 6037059	A	20000314	US 1998-177589	19981023

PRIORITY APPLN. INFO.: US 1996-762644 A3 19961209
US 1997-963814 A3 19971104
OTHER SOURCE(S): CASREACT 129:40976; MARPAT 129:40976
GI



I



II

AB The title compds. [I; Ar1, Ar2 = (un)substituted monocyclic or polycyclic aryl groups; R = H, aryl, or a linear or branched alkyl chain; Ar3 = aryl group bearing at least one OH] are prepared I are capable of absorbing UV light and compatible in coating compns. to improve the weatherability of thermoplastic substrates. Thus, I (Ar1 = Ar2 = Ph, R = H, Ar3 = AcO) (preparation given) was coupled with 4,6-dibenzoylresorcinol in the presence of concentrate H2SO4 in AcOH to give 84% the title compound (II).

IT **208404-09-5P**
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
(preparation of dibenzoylresorcinols as UV absorbers)

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 10 OF 40 HCAPLUS COPYRIGHT 2004 ACS on STN
ED Entered STN: 04 Apr 1998
ACCESSION NUMBER: 1998:196322 HCAPLUS Full-text
DOCUMENT NUMBER: 128:244776
TITLE: (Hydroxyphenyl)triazines useful as stabilizers for plastics
INVENTOR(S): Hayoz, Pascal; Valet, Andreas; Toan, Vien Van
PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Switz.
SOURCE: Ger. Offen., 44 pp.
CODEN: GWXXBX
DOCUMENT TYPE: **Patent**
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19739781	A1	19980319	DE 1997-19739781	19970910
GB 2317174	A1	19980318	GB 1997-19145	19970910
GB 2317174	B2	20000517		
US 6013704	A	20000111	US 1997-929147	19970910
CA 2215261	AA	19980313	CA 1997-2215261	19970911
SE 9703288	A	19980314	SE 1997-3288	19970911

FR 2753447	A1	19980320	FR 1997-11288	19970911
FR 2753447	B1	20000713		
BE 1011451	A5	19990907	BE 1997-741	19970911
NL 1007031	A1	19980316	NL 1997-1007031	19970912
NL 1007031	C2	19990127		
JP 10147577	A2	19980602	JP 1997-289007	19970912
BR 9704717	A	19981222	BR 1997-4717	19970915

PRIORITY APPLN. INFO.: CH 1996-2254 A 19960913

OTHER SOURCE(S): MARPAT 128:244776

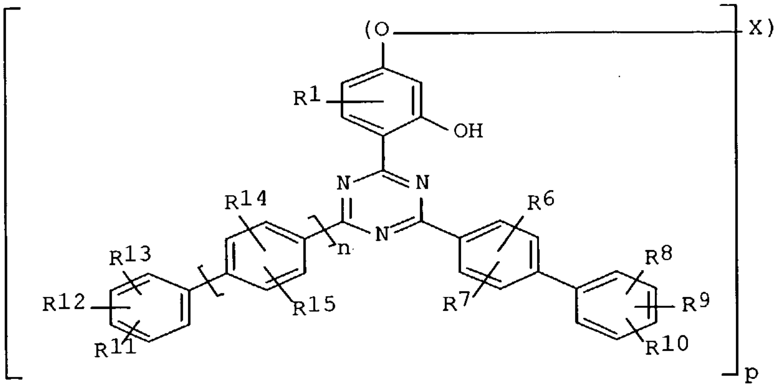
AB (Hydroxyphenyl)triazines of specified structure, useful in stabilizing plastics against heat, light, and O, are prepared Refluxing 2-(2,4-dihydroxyphenyl)-4,6-bis(2,4-dimethylphenyl)-1,3,5- triazine 0.1, cyclododecyl glycidyl ether 0.11, and EtP(Ph)3+ Br- 0.01 mol in xylene for 16 h gave 58% 2-[4-[3-(cyclododecyloxy)-2- hydroxypropoxy]-2-hydroxyphenyl]-4,6-bis(2,4-dimethylphenyl)-1,3,5- triazine. Use of the products in stabilizing plastics, coatings, and polypropene fibers is exemplified.

IT **204583-37-9P 204590-47-6P 204590-50-1P**
204590-52-3P 204590-54-5P 204590-56-7P
204590-58-9P 204590-60-3P 204590-63-6P
204590-65-8P 204590-66-9P 204590-68-1P
204590-70-5P 204590-72-7P 204590-73-8P
204590-74-9P 204590-75-0P 204590-76-1P
204590-77-2P 204590-78-3P 204590-79-4P
204590-81-8P 204590-83-0P 204590-85-2P
204590-86-3P 204590-87-4P 204590-88-5P
204590-89-6P 204590-90-9P 204590-92-1P
204590-93-2P 204590-95-4P 204590-97-6P
204590-99-8P 204591-01-5P 204591-03-7P
204591-05-9P 204591-07-1P 204591-09-3P
204591-11-7P 204591-13-9P 204591-15-1P
204591-17-3P 204591-19-5P 204591-21-9P
204591-22-0P 204591-24-2P 204591-26-4P
204591-29-7P 204591-31-1P 204848-61-3P
RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP (Preparation); USES (Uses)
((hydroxyphenyl)triazines useful as stabilizers for plastics)

L8 ANSWER 11 OF 40 HCAPLUS COPYRIGHT 2004 ACS on STN
ED Entered STN: 04 Apr 1998
ACCESSION NUMBER: 1998:196320 HCAPLUS Full-text
DOCUMENT NUMBER: 128:263871
TITLE: Color photographic material with UV-absorber
INVENTOR(S): Hayoz, Pascal; Bulliard, Christophe; Leppard, David George
PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Switz.
SOURCE: Ger. Offen., 108 pp.
CODEN: GWXXBX
DOCUMENT TYPE: **Patent**
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19739748	A1	19980319	DE 1997-19739748	19970910
US 5998116	A	19991207	US 1997-925017	19970908
FR 2753546	A1	19980320	FR 1997-11290	19970911

NL 1007027 C2 19980316 NL 1997-1007027 19970912
JP 10115898 A2 19980506 JP 1997-289005 19970912
PRIORITY APPLN. INFO.: CH 1996-2252 A 19960913
OTHER SOURCE(S): MARPAT 128:263871
GI



I

AB The title material contains a 2-biphenyl-4-aryl-6-(2-hydroxyphenyl)- 1,3,5-triazin type UV-absorber I (R1 = H, C1-24-alkyl, C5-12-cycloalkyl, etc.; R6-15 = H, OH, CN, C1-20-alkyl, sulfonyl, carbonyl, etc.). The material shows excellent stability.

IT **204989-93-5P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of UV-absorber for color photog. film)

IT **182918-19-0P 182918-22-5P 202411-92-5P**
202411-93-6P 202411-96-9DP, neo-alkanoate esters
202412-08-6P 204583-35-7P 204583-37-9P
204583-38-0P 204583-39-1P 204583-40-4P
204583-42-6P 204583-43-7P 204583-44-8P
204583-45-9P 204583-48-2P 204583-49-3P
204583-50-6P 204583-51-7P 204583-52-8P
204583-53-9P 204583-54-0P 204848-42-0P
204848-45-3P 204848-46-4P 204848-47-5P
204848-48-6P 204989-92-4P 205178-63-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of UV-absorber for color photog. film)

L8 ANSWER 12 OF 40 HCAPLUS COPYRIGHT 2004 ACS on STN
ED Entered STN: 31 Jan 1998
ACCESSION NUMBER: 1998:59358 HCAPLUS Full-text
DOCUMENT NUMBER: 128:154905
TITLE: Triazines, their use as UV absorbers, and polymer compositions containing them with long-lasting light resistance
INVENTOR(S): Haruna, Toru; Tobita, Etsuo; Nanbe, Yoko
PATENT ASSIGNEE(S): Asahi Denka Kogyo K. K., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.

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                              CODEN: JKXXAF
DOCUMENT TYPE:                Patent
LANGUAGE:                     Japanese
FAMILY ACC. NUM. COUNT:       1
PATENT INFORMATION:

     PATENT NO.          KIND   DATE           APPLICATION NO.    DATE
     ---------------     ----   --------       ---------------    --------
     JP 10017557          A2    19980120       JP 1996-195577     19960705
PRIORITY APPLN. INFO.:                      JP 1996-195577        19960705
OTHER SOURCE(S):              MARPAT 128:154905
GI



* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY -  AVAILABLE VIA OFFLINE PRINT *

AB    UV absorbers, which are less volatile and show good compatibility with
      aromatic polymers, comprise triazines I (R1 = CO, R7OCO2R8, CO2R9O2C,
      R10OCO2R11OCO2R12; R7-R12 = C1-8 alkylene, arylene; the alkylene of R7, R8
      may be substituted with OH; R2-R6 = H, halo, OH, C1-10 alkyl, alkoxy,
      alkoxycarbonyl).  Polymer compns. (e.g. polycarbonates and polyesters)
      containing the absorbers are also claimed.  Thus, an injection molding
      containing ethylene-propylene copolymer and UV absorber II showed good
      yellowing resistance in a sunshine weatherometer test.
IT    201988-31-0P 201988-34-3P
      RL: IMF (Industrial manufacture); MOA (Modifier or additive use);
      PRP (Properties); TEM (Technical or engineered material use); PREP
      (Preparation); USES (Uses)
         (triazines as UV absorbers for polymer compns. with long-lasting
         light resistance)

L8    ANSWER 13 OF 40  HCAPLUS  COPYRIGHT 2004 ACS on STN
ED    Entered STN:  31 Jan 1998
ACCESSION NUMBER:             1998:59357  HCAPLUS Full-text
DOCUMENT NUMBER:              128:154904
TITLE:                        Triazines, their use as UV absorbers, and thin
                              film and fibrous compositions containing them
INVENTOR(S):                  Tobita, Etsuo; Nanbu, Yoko; Ishikawa, Shinichi
PATENT ASSIGNEE(S):           Asahi Denka Kogyo K. K., Japan
SOURCE:                       Jpn. Kokai Tokkyo Koho, 11 pp.
                              CODEN: JKXXAF
DOCUMENT TYPE:                Patent
LANGUAGE:                     Japanese
FAMILY ACC. NUM. COUNT:       1
PATENT INFORMATION:

     PATENT NO.          KIND   DATE           APPLICATION NO.    DATE
     ---------------     ----   --------       ---------------    --------
     JP 10017556          A2    19980120       JP 1996-192962     19960703
PRIORITY APPLN. INFO.:                      JP 1996-192962        19960703
OTHER SOURCE(S):              MARPAT 128:154904
GI
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* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB UV absorbers, which show good heat resistance and cause no discoloration to organic materials (no data), comprise triazines I [n = 1, 2; when n = 1, then R1 = H, C1-12 linear or branched alkyl, glycidyl, C3-8 cycloalkyl, etc.; when n = 2, then R1 = (un)substituted C1-8 linear or branched alkylene, (un)substituted C3-8 cycloalkylene, (un)substituted C6-18 arylene (bonded via O, S, CO, ester group, amide group, imino group); R2 = C1-8 alkyl; R3-R6 = H, halo, OH, C1-12 alkyl, alkoxy, alkoxycarbonyl, arylalkyl]. Thin film compns. (e.g. coatings and films) and fibrous compns. containing the UV absorbers are also claimed. Thus, a sheet containing ethylene-propylene copolymer and UV absorber II showed good yellowing resistance in a sunshine weatherometer test.

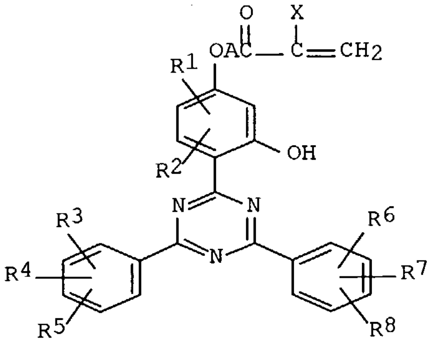
IT **201987-25-9P**
RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PRP (Properties); RCT (Reactant); TEM (Technical or engineered material use); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(triazines as UV absorbers for coatings, films, and fibers)

IT **201987-26-0P**
RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(triazines as UV absorbers for coatings, films, and fibers)

L8 ANSWER 14 OF 40 HCAPLUS COPYRIGHT 2004 ACS on STN
ED Entered STN: 02 May 1997
ACCESSION NUMBER: 1997:280882 HCAPLUS Full-text
DOCUMENT NUMBER: 126:278290
TITLE: Polymeric UV-absorbing agents and compositions containing them
INVENTOR(S): Nakahara, Yutaka; Nanbu, Yoko
PATENT ASSIGNEE(S): Asahi Denka Kogyo KK, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.
CODEN: JKXXAF
DOCUMENT TYPE: **Patent**
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09052916	A2	19970225	JP 1995-227074	19950811

PRIORITY APPLN. INFO.: JP 1995-227074 19950811
GI



I

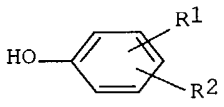
AB Homopolymer of compound I and copolymer of I with other monomers are synthesized and used in polymer compns. as UV-absorbing agent [A = single bond, (CH2CH2O)n, CH2CH(OH), CH2O; X = H, Me; R1-8 = H, C1-10 alkyl, alkenyl, alkoxy; n = 1-5]. A test piece made from an ethylene-propylene copolymer composition containing 0.3 phr of copolymer of I (A = CH2CH2O; X = Me; R1, R2, R3, R6 = H; R4, R5, R7, R8 = Me) and Me methacrylate was subjected to a weather resistant test which comprises cycles of 18-min rain per 120 min and show crack after 2800 h and yellowing degree 4.8 and 7.7 after 500 and 2000 h, resp.

IT **188753-57-3P**
RL: IMF (Industrial manufacture); MOA (Modifier or additive use);
PRP (Properties); PREP (Preparation); USES (Uses)
(polymeric UV-absorbing agents and compns. containing them)

L8 ANSWER 15 OF 40 HCAPLUS COPYRIGHT 2004 ACS on STN
ED Entered STN: 14 Apr 1997
ACCESSION NUMBER: 1997:240611 HCAPLUS Full-text
DOCUMENT NUMBER: 126:277502
TITLE: Process for preparation of 2-(2',4'-dihydroxyphenyl)-4,6-diaryl-s-triazine derivatives by cyclocondensation and catalytic coupling reaction
INVENTOR(S): Kimura, Ryoji; Nanbu, Yoko
PATENT ASSIGNEE(S): Asahi Denka Kogyo KK, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.
CODEN: JKXXAF
DOCUMENT TYPE: **Patent**
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09059263	A2	19970304	JP 1995-227075	19950811

PRIORITY APPLN. INFO.: JP 1995-227075 19950811
OTHER SOURCE(S): MARPAT 126:277502
GI



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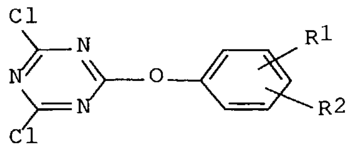
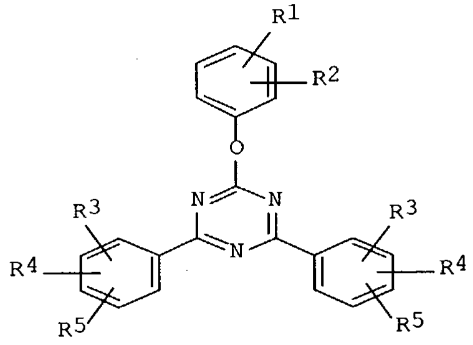
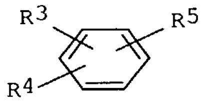


II



IV



III

AB Phenol compds. (I; R1, R2 = H, C1-10 alkyl, alkoxy, alkenyl, halo, NO2) is reacted with cyanuric chloride to give intermediates (II; R1, R2 = same as above) which is further coupled with Ph compds. (III; R3-R5 = H, C1-10 alkyl, alkoxy, alkoxycarbonyl, halo) in the presence of Lewis acid catalysts to give the title compds. (IV; R1-R5 = same as above). This process produces IV in one-pot efficiently. IV are useful intermediates for UV adsorbents.

IT **1668-53-7P**
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
(process for preparation of dihydroxyphenyldiaryltriazine derivs. by cyclocondensation and catalytic coupling reaction)

L8 ANSWER 16 OF 40 HCAPLUS COPYRIGHT 2004 ACS on STN
ED Entered STN: 19 Mar 1997

ACCESSION NUMBER:	1997:181082 HCAPLUS Full-text
DOCUMENT NUMBER:	126:186113
TITLE:	Preparation of triazine derivatives as UV absorbers
INVENTOR(S):	Kimura, Ryoji; Nanbu, Yoko
PATENT ASSIGNEE(S):	Asahi Denka Kogyo KK, Japan
SOURCE:	Jpn. Kokai Tokkyo Koho, 10 pp. CODEN: JKXXAF
DOCUMENT TYPE:	**Patent**
LANGUAGE:	Japanese
FAMILY ACC. NUM. COUNT:	1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09020760	A2	19970121	JP 1995-192549	19950705

PRIORITY APPLN. INFO.: JP 1995-192549 19950705
OTHER SOURCE(S): MARPAT 126:186113
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The title compds. I [R1 = H, alkyl, etc.; R2 = alkenyl; R3 - R5 = H, alkyl, etc.], useful as UV absorbers for polymers and recording materials, are prepared In a weather resistance test, a film containing the title compound II showed good resistance for 3800 h, vs. 2900 h for a reference compound

IT **187148-09-0P 187148-10-3P 187148-11-4P**
187148-12-5P
RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(preparation of triazine derivs. as UV absorbers)

L8 ANSWER 17 OF 40 HCAPLUS COPYRIGHT 2004 ACS on STN
ED Entered STN: 09 Jan 1997
ACCESSION NUMBER: 1997:9937 HCAPLUS Full-text
DOCUMENT NUMBER: 126:60907
TITLE: Hybrid s-triazine light stabilizers substituted by benzotriazole or benzophenone moieties and compositions stabilized therewith
INVENTOR(S): Falk, Robert A.; Stevenson, Tyler A.; Coughlin, Gregory R.
PATENT ASSIGNEE(S): Ciba-Geigy Corporation, USA
SOURCE: U.S., 12 pp.
CODEN: USXXAM
DOCUMENT TYPE: **Patent**
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5585422	A	19961217	US 1995-530972	19950920
EP 764686	A1	19970326	EP 1996-810603	19960911
EP 764686	B1	19990616		
R: DE, FR, GB, IT				
JP 09110841	A2	19970428	JP 1996-271851	19960920

PRIORITY APPLN. INFO.: US 1995-530972 19950920
OTHER SOURCE(S): MARPAT 126:60907

AB S-Triazine UV absorbers substituted by a benzotriazolyl or benzophenonyl moiety exhibit improved UV absorption characteristics and outstanding efficacy in protecting organic substances from actinic radiation as well as good resistance to loss by volatilization during processing of stabilized compns. at elevated temps. 2-(2-Hydroxy-3-diethylaminomethyl-5-methylphenyl)-2H-benzotriazole was prepared from 2-(2-hydroxy-5-methylphenyl)-2H-benzotriazole, diethylamine, and paraformaldehyde.

IT **185155-04-8P 185155-06-0P 185155-07-1P**
185155-08-2P
RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP (Preparation); USES (Uses)
(hybrid s-triazine light stabilizers substituted by benzotriazole or benzophenone moieties and compns. stabilized therewith)

L8 ANSWER 18 OF 40 HCAPLUS COPYRIGHT 2004 ACS on STN
ED Entered STN: 27 Jul 1996
ACCESSION NUMBER: 1996:443893 HCAPLUS Full-text

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DOCUMENT NUMBER:         125:88154
TITLE:                   1,3,5-Triazines and pyrimidines as latent light
                         stabilizers
INVENTOR(S):             Birbaum, Jean-Luc; Rytz, Gerhard; Toan, Vien
                         Van; Valet, Andreas; Wuerms, Norbert
PATENT ASSIGNEE(S):      Ciba-Geigy A.-G., Switz.
SOURCE:                  Eur. Pat. Appl., 63 pp.
                         CODEN: EPXXDW
DOCUMENT TYPE:           Patent
LANGUAGE:                German
FAMILY ACC. NUM. COUNT:  1
PATENT INFORMATION:

     PATENT NO.          KIND   DATE           APPLICATION NO.   DATE
     ---------------     ----   --------       ---------------   --------
     EP 711804            A2    19960515       EP 1995-810693    19951106
     EP 711804            A3    19990922
         R:  BE, DE, ES, FR, GB, IT, NL
     US 5597854           A     19970128       US 1995-556159    19951109
     CA 2162645           AA    19960515       CA 1995-2162645   19951110
     BR 9505169           A     19971021       BR 1995-5169      19951113
     JP 08225679          A2    19960903       JP 1995-319527    19951114
PRIORITY APPLN. INFO.:                      CH 1994-3410         19941114
OTHER SOURCE(S):         MARPAT 125:88154
AB    Triaryl 1,3,5-triazines or pyrimidines of specified structure are latent
      heat and light stabilizers and antioxidants with good substrate
      compatibility and color properties.  Stirring 0.1 mol 2-(2,4-
      dihydroxyphenyl)-4,6-diphenyl-1,3,5-triazine, 8 mmol 4-
      (dimethylamino)pyridine, and 150 mL Ac2O at 110° for 4 h gave the
      corresponding diacetate (I).  An acrylic polymer metal-effect coating
      containing 2% I had 20° gloss 88, 91, 90, and 77 after 0, 400, 800, and
      1200 h, resp., of accelerated UV exposure; vs. 87, 84, 46, and -, resp.,
      without I.
IT    178905-30-1P
      RL: IMF (Industrial manufacture); RCT (Reactant); PREP
      (Preparation); RACT (Reactant or reagent)
         (preparation and acetylation of)
IT    176225-63-1P
      RL: IMF (Industrial manufacture); RCT (Reactant); PREP
      (Preparation); RACT (Reactant or reagent)
         (preparation and reaction with Bu glycidyl ether)

L8    ANSWER 19 OF 40  HCAPLUS  COPYRIGHT 2004 ACS on STN
ED    Entered STN:  20 Mar 1996
ACCESSION NUMBER:        1996:161559  HCAPLUS  Full-text
DOCUMENT NUMBER:         124:274368
TITLE:                   UV absorbers and use in photographic materials,
                         inks or recording materials for ink-jet
                         printing, and surface coatings
INVENTOR(S):             Toan, Vien V.
PATENT ASSIGNEE(S):      Ciba-Geigy Corp., USA
SOURCE:                  U.S., 27 pp. Cont.-in-part of U.S. Ser. No.
                         159,400, abandoned.
                         CODEN: USXXAM
DOCUMENT TYPE:           Patent
LANGUAGE:                English
FAMILY ACC. NUM. COUNT:  2
PATENT INFORMATION:
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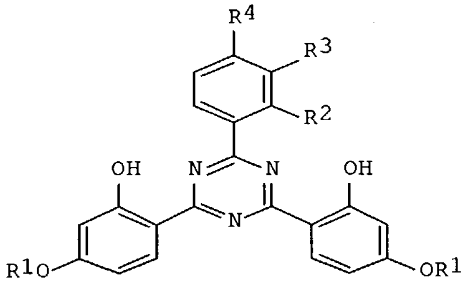
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5489503	A	19960206	US 1994-350300	19941206

PRIORITY APPLN. INFO.: US 1994-350300 A 19941206
CH 1992-3717 B2 19921203
US 1993-159400 19931130

OTHER SOURCE(S): MARPAT 124:274368

GI



I

AB Novel UV absorbers of the bis- or tris-2'-hydroxyphenyltriazine type and their use in photog. materials, inks or recording materials for ink-jet printing, and surface coatings are described which conform to the formula I [R1 = (CH2CHR5O)kR8, CH2CH(OH)CH2O(CH2CHR5O)nR8, (CH2)lCHR6CO2(CH2CHR5O)nR8, or CH2CH(CH2OR7)OCO(CH2CHR5O)nR8; R2 = H, OH, Cl, F, or C1-12 alkyl; R3 = H, OR9, Cl, F, or C1-12 alkyl; R4 = H, OR9, Cl, F, or C1-12 alkyl with the proviso that if R2 is OH, R4 is OR1; R5 = H or CH3; R6 = C1-16 alkyl or H if l is not 1; R7 = C1-14 alkyl or Ph; R8 = C1-14 alkyl, Ph, or (C1-4 alkyl)phenyl; R9 = C1-4 alkyl; k = 2-16; l = 0-16; n = 1-16].

IT **160907-20-0P 160907-21-1P 160907-22-2P**
160907-23-3P 160907-24-4P 160907-25-5P
160907-26-6P 160907-27-7P 160907-28-8P
175648-81-4P 175648-82-5P 175648-83-6P
175648-84-7P 175648-85-8P 175648-86-9P
175648-87-0P 175648-88-1P 175648-89-2P
175648-90-5P 175648-91-6P 175648-92-7P
175648-93-8P 175648-94-9P
RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(preparation and use as UV absorber for photog. and recording materials and inks for ink-jet printing)

L8 ANSWER 20 OF 40 HCAPLUS COPYRIGHT 2004 ACS on STN
ED Entered STN: 27 Jul 1995
ACCESSION NUMBER: 1995:701731 HCAPLUS Full-text
DOCUMENT NUMBER: 123:86057
TITLE: Electro coat/base coat/clear coat finishes stabilized with tris-aryl-s-triazine UV absorbers
INVENTOR(S): Stevenson, Tyler A.; Holt, Mark S.; Ravichandran, Ramanathan

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PATENT ASSIGNEE(S):      Ciba-Geigy A.-G., USA
SOURCE:                  PCT Int. Appl., 43 pp.
                         CODEN: PIXXD2
DOCUMENT TYPE:           Patent
LANGUAGE:                English
FAMILY ACC. NUM. COUNT:  2
PATENT INFORMATION:

     PATENT NO.       KIND  DATE          APPLICATION NO.  DATE
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     WO 9418278        A2   19940818      WO 1994-US1246   19940202
     WO 9418278        A3   19940929
         W:  CA, JP, KR, US
         RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT,
             SE
     CA 2152169        AA   19940818      CA 1994-2152169  19940202
     EP 682680         A1   19951122      EP 1994-907964   19940202
         R:  BE, DE, ES, FR, GB, IT, NL
     JP 08506608       T2   19960716      JP 1994-518217   19940202
PRIORITY APPLN. INFO.:                 US 1993-12699       19930203
                                       WO 1994-US1246      19940202
OTHER SOURCE(S):         MARPAT 123:86057
GI


* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY -  AVAILABLE VIA OFFLINE PRINT *

AB    Tris-aryl-s-triazine UV absorbers I or II (R1 = straight or branched C2-24-
      alkyl; X = H, straight or branched C1-4-alkyl, Ph, halogen, SR6, SOR6,
      SO2R6, R6 = alkyl, aryl; when X = halogen, R1 is not CH2CH(R7)OH; R7 = H,
      Me or when X = S divalent group the number of triazine derivs. is 2)
      provide excellent light stability for finishes.  I (R1 = average nonyl)
      (III) was prepared by the reaction of 7.4 mmol 2,4,6-tris(2,4-
      dihydroxyphenyl)-s-triazine with 0.11 mol glycidyl nonyl ether (average
      from mixture) in the presence of triphenylethylphosphonium iodide.
      Uniprime test panels are coated with an acrylic melamine clear coat
      containing 2% III and baked at 121° for 30 min to give coated panels
      showing days to delamination (SAE J-1976 weathering test) 149, vs. 19 for
      the unstabilized panel.
IT    2125-23-7DP, 2,4,6-Tris(2,4-dihydroxyphenyl)-s-triazine,
      glycidyl octyl/decyl ether adduct 162920-81-2DP, glycidyl
      octyl/decyl ether adduct 162920-82-3DP, glycidyl
      octyl/decyl ether adduct 162920-84-5P
      162920-85-6DP, glycidyl octyl/decyl ether adduct
      162920-86-7P 162920-87-8P 162920-88-9P
      162920-89-0P
      RL: IMF (Industrial manufacture); MOA (Modifier or additive use);
      PREP (Preparation); USES (Uses)
         (electro coat/base coat/clear coat finishes stabilized with
         tris-aryl-s-triazine UV absorbers)
IT    162920-83-4P
      RL: IMF (Industrial manufacture); MOA (Modifier or additive use);
      RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent); USES
      (Uses)
         (electro coat/base coat/clear coat finishes stabilized with
         tris-aryl-s-triazine UV absorbers)
```
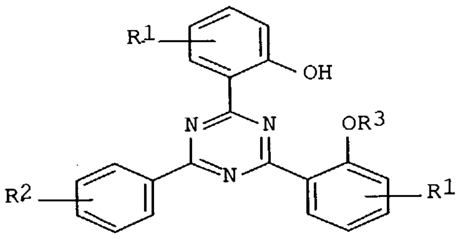

L8 ANSWER 21 OF 40 HCAPLUS COPYRIGHT 2004 ACS on STN
ED Entered STN: 27 Jun 1995
ACCESSION NUMBER: 1995:638432 HCAPLUS Full-text
DOCUMENT NUMBER: 123:33100
TITLE: Process for the production of substituted 1,3,5-triazine UV absorbers
INVENTOR(S): Reinehr, Dieter; Borsos, Elek
PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Switz.
SOURCE: Eur. Pat. Appl., 9 pp.
CODEN: EPXXDW
DOCUMENT TYPE: **Patent**
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 648753	A1	19950419	EP 1994-810540	19940920
EP 648753	B1	19970402		
R: BE, CH, DE, ES, FR, GB, IT, LI, NL				
CH 686305	A	19960229	CH 1993-2913	19930928
ES 2100658	T3	19970616	ES 1994-810540	19940920
CA 2132907	AA	19950329	CA 1994-2132907	19940926
US 5545836	A	19960813	US 1994-312597	19940927
JP 07188188	A2	19950725	JP 1994-231956	19940928

PRIORITY APPLN. INFO.: CH 1993-2913 A 19930928
OTHER SOURCE(S): MARPAT 123:33100
GI



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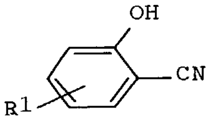
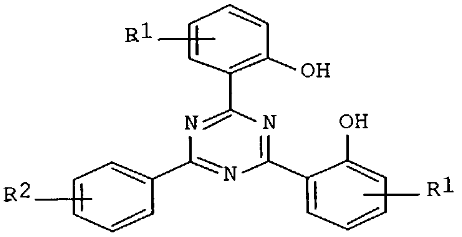


II



III

AB UV-absorbing triazines (I; R1, R2 = H, halogen, CN, alkyl, alkoxy; R3 = alkyl) are prepared by the cycloaddn. of hydroxybenzonitriles II and R2C2H4CN, forming dihydroxytriazines III, followed by the selective alkylation of III.

IT **154825-51-1P 164157-09-9P**
RL: MOA (Modifier or additive use); PRP (Properties); SPN (Synthetic

```
     preparation); PREP (Preparation); USES (Uses)
        (process for the production of substituted 1,3,5-triazine UV
        absorbers)
IT   4507-97-5P 164157-07-7P 164157-08-8P
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);
     RACT (Reactant or reagent)
        (process for the production of substituted 1,3,5-triazine UV
        absorbers)

L8   ANSWER 22 OF 40  HCAPLUS  COPYRIGHT 2004 ACS on STN
ED   Entered STN:  27 May 1995
ACCESSION NUMBER:         1995:576731  HCAPLUS Full-text
DOCUMENT NUMBER:          122:314580
TITLE:                    Process for the preparation of
                          hydroxyphenyl-1,3,5-triazines.
INVENTOR(S):              Reihehr, Dieter; Bacher, Jean Pierre
PATENT ASSIGNEE(S):       Ciba-Geigy A.-G., Switz.
SOURCE:                   Eur. Pat. Appl., 11 pp.
                          CODEN: EPXXDW
DOCUMENT TYPE:            Patent
LANGUAGE:                 German
FAMILY ACC. NUM. COUNT:   1
PATENT INFORMATION:

     PATENT NO.        KIND  DATE          APPLICATION NO.   DATE
     ---------------   ----  --------      ---------------   --------
     EP 648754          A1   19950419      EP 1994-810587    19941006
     EP 648754          B1   20000712
         R:  BE, CH, DE, ES, FR, GB, IT, LI, NL
     US 5478935         A    19951226      US 1994-321492    19941012
     CA 2118068         AA   19950416      CA 1994-2118068   19941013
     JP 07188189        A2   19950725      JP 1994-248214    19941014
     US 5705643         A    19980106      US 1995-533422    19950925
PRIORITY APPLN. INFO.:                  CH 1993-3116     A  19931015
                                        US 1994-321492   A3 19941012
OTHER SOURCE(S):          CASREACT 122:314580; MARPAT 122:314580
GI


* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY -  AVAILABLE VIA OFFLINE PRINT *

AB   Title compds. (I; R1-R3 = H, halo, alkyl, alkoxy, cyano), useful as UV
     absorbers (no details), were prepared by treating dihydro derivs. II with
     compds. ordinarily used as reducing agents.  Thus, benzamidine
     hydrochloride in 30% methanolic NaOMe was treated with 2-hydroxy-4-
     methoxybenzaldehyde in DMF and the mixture was stirred 16 h at 38-40° to
     give 67.2% III.  III in DMF was treated with 40% aqueous Na bisulfite over
     30 min and the mixture was stirred 6 h at 48° to give 91.5% IIII.
IT   3202-86-6P 106556-36-9P 163392-73-2P
     163392-74-3P 163392-75-4P
     RL: IMF (Industrial manufacture); MOA (Modifier or additive use);
     SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
        (process for the preparation of hydroxyphenyl-1,3,5-triazines useful
        as UV absorbers)
IT   23449-05-0P 163392-76-5P 163392-77-6P
     163392-78-7P 163392-79-8P
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);
     RACT (Reactant or reagent)
        (process for the preparation of hydroxyphenyl-1,3,5-triazines useful
        as UV absorbers)

L8   ANSWER 23 OF 40  HCAPLUS  COPYRIGHT 2004 ACS on STN
ED   Entered STN:  28 Apr 1995
ACCESSION NUMBER:         1995:513532  HCAPLUS Full-text
DOCUMENT NUMBER:          122:242398
TITLE:                    Aminoplast-bonded light stabilizers with low
                          volatility
INVENTOR(S):              Szita, Jeno G.; Waterman, Paul S.
PATENT ASSIGNEE(S):       American Cyanamid Co., USA
SOURCE:                   Eur. Pat. Appl., 77 pp.
                          CODEN: EPXXDW
DOCUMENT TYPE:            Patent
LANGUAGE:                 English
FAMILY ACC. NUM. COUNT:   1
PATENT INFORMATION:

     PATENT NO.        KIND  DATE          APPLICATION NO.   DATE
     ---------------   ----  --------      ---------------   --------
     EP 604980          A1   19940706      EP 1993-121013    19931228
         R:  DE, ES, FR, GB, IT, NL
     US 5621052         A    19970415      US 1992-998099    19921229
     CA 2112439         AA   19940630      CA 1993-2112439   19931224
     JP 06263965        A2   19940920      JP 1993-349252    19931228
     US 5547753         A    19960820      US 1995-449401    19950523
     US 5563224         A    19961008      US 1995-448291    19950523
     US 5605986         A    19970225      US 1995-447668    19950523
     US 5612084         A    19970318      US 1995-448161    19950523
PRIORITY APPLN. INFO.:                  US 1992-998099    19921229
AB    Light stabilizers with low volatility and good compatibility with coating
      resins (e.g., acrylic-melamine) are prepared by reacting alkoxymethylated
      aminoplasts (e.g., alkoxymethylated derivs. of glycoluril, melamine, and/or
      benzoguanamine) with light stabilizers [e.g., 2-(2-
      hydroxyaryl)benzotriazoles, 2-hydroxybenzophenones, 2-(2-hydroxyaryl)-4,6-
      diaryl-1,3,5-triazines, salicylic acid derivs., and/or 2-hydroxyoxanilides]
      in the presence of H2SO4.  A light stabilizer was prepared by reacting 8.0
      g Powderlink 1174 with 32.2 g Cyasorb UV 5411 in 90 mL H2SO4.
IT    2725-22-6DP, Cyasorb UV 1164L, reaction products with
      aminoplasts
      RL: IMF (Industrial manufacture); MOA (Modifier or additive use);
      PRP (Properties); PREP (Preparation); USES (Uses)
         (light stabilizers; preparation and use of nonvolatile)

L8   ANSWER 24 OF 40  HCAPLUS  COPYRIGHT 2004 ACS on STN
ED   Entered STN:  01 Oct 1994
ACCESSION NUMBER:         1994:558809  HCAPLUS Full-text
DOCUMENT NUMBER:          121:158809
TITLE:                    Imino ethers as light stabilizers
INVENTOR(S):              Avar, Lajos
PATENT ASSIGNEE(S):       Sandoz-Patent-G.m.b.H., Germany
SOURCE:                   Ger. Offen., 14 pp.
                          CODEN: GWXXBX
DOCUMENT TYPE:            Patent
LANGUAGE:                 German
FAMILY ACC. NUM. COUNT:   1
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PATENT INFORMATION:

     PATENT NO.        KIND  DATE          APPLICATION NO.   DATE
     ---------------   ----  --------      ---------------   --------
     DE 4324793         A1   19940203      DE 1993-4324793   19930723
     FR 2694291         A1   19940204      FR 1993-9207      19930723
     FR 2694291         B1   19960223
     GB 2269173         A1   19940202      GB 1993-15540     19930726
     GB 2269173         B2   19960221
     CH 687079          A    19960913      CH 1993-2253      19930726
     US 5489632         A    19960206      US 1993-98975     19930728
     JP 06220005        A2   19940809      JP 1993-188480    19930729
PRIORITY APPLN. INFO.:                  GB 1992-16191    A  19920730
OTHER SOURCE(S):            MARPAT 121:158809
AB   Imino ethers ZN:C(OX)nY (n = 1-3; when n = 1, Z = alkyl, biphenylyl, Ph,
     alkylphenyl, alkoxyphenyl; when n = 2, Z = alkylene, alkylphenylene,
     halophenylene, etc.; when n = 3, Z = trivalent aliphatic or aromatic group;
     Y = alkyl, Ph, biphenylyl, 2-thienyl, etc.; X = substituted
     benzoylhydroxyphenyl, benzotriazolylhydroxyphenyl, triazinylhydroxyphenyl,
     or piperidinyl group) are prepared and used as light stabilizers.  Reacting
     2,4-dihydroxy-4-chlorobenzophenone with Me3C-p-C6H4C(R):N-p-C6H4Ph (I) (R =
     Cl) gave I [R = 4-(4-chlorobenzoyl)-3-hydroxyphenoxy] which was used in
     lacquers based on acrylic and melamine resins to provide resistance to UV
     light and weathering.
IT   157550-40-8P 157550-41-9P
     RL: PREP (Preparation)
        (preparation and use as light stabilizers)

L8   ANSWER 25 OF 40  HCAPLUS  COPYRIGHT 2004 ACS on STN
ED   Entered STN:  23 Jul 1994
ACCESSION NUMBER:          1994:437804  HCAPLUS Full-text
DOCUMENT NUMBER:           121:37804
TITLE:                     Fluoran derivatives as color formers in
                           recording materials
INVENTOR(S):               Zink, Rudolf
PATENT ASSIGNEE(S):        Ciba-Geigy A.-G., Switz.
SOURCE:                    Eur. Pat. Appl., 26 pp.
                           CODEN: EPXXDW
DOCUMENT TYPE:             Patent
LANGUAGE:                  German
FAMILY ACC. NUM. COUNT:    1
PATENT INFORMATION:

     PATENT NO.        KIND  DATE          APPLICATION NO.   DATE
     ---------------   ----  --------      ---------------   --------
     EP 561738          A1   19930922      EP 1993-810173    19930309
     EP 561738          B1   19970604
         R:  BE, CH, DE, ES, FR, GB, IT, LI
     ES 2105191         T3   19971016      ES 1993-810173    19930309
     US 5395948         A    19950307      US 1993-29216     19930310
     BR 9301195         A    19930921      BR 1993-1195      19930316
     JP 06008620        A2   19940118      JP 1993-56730     19930317
     JP 2533731         B2   19960911
PRIORITY APPLN. INFO.:                  CH 1992-862         19920317
                                        CH 1992-3475        19921110
OTHER SOURCE(S):            MARPAT 121:37804
GI
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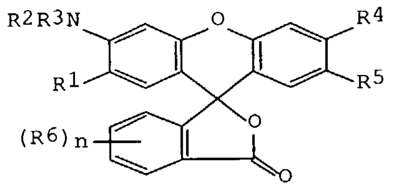


I

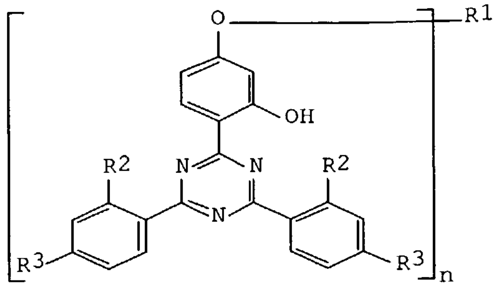
AB Fluoran derivs. I (R1 = H, alkyl; R2-3 = H, alkyl, aryl, alkenyl, alkoxy, tetrahydrofuranyl, ring-completing group; R4 = H, OH, alkyl; R5 = NO2, alkylsulfonyl, sulfo, formyl, 2-triazinyl, etc.; R6 = halo, NO2, alkyl, amino, acyl; n = 0-4) are useful as color formers which are resistant to migration and sublimation when used in heat- or pressure-sensitive recording materials. Condensing 2'-carboxy-4-diethylamino-2-hydroxybenzophenone with EtO-p-C6H4SO2Bu in 98% H2SO4 at 15-30° gave I (R1, R4, R6 = H; R2, R3 = Et; R5 = BuSO2) which did not migrate from microcapsules and gave orange shades on copying paper.

IT **154306-61-3P**
RL: PREP (Preparation)
(preparation of, as migration-resistant color former in recording materials)

L8 ANSWER 26 OF 40 HCAPLUS COPYRIGHT 2004 ACS on STN
ED Entered STN: 13 Nov 1993
ACCESSION NUMBER: 1993:613920 HCAPLUS Full-text
DOCUMENT NUMBER: 119:213920
TITLE: UV absorber-containing photographic material
INVENTOR(S): Leppard, David G.; Slongo, Mario; Toan Vien Van
PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Switz.
SOURCE: Eur. Pat. Appl., 54 pp.
CODEN: EPXXDW
DOCUMENT TYPE: **Patent**
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 530135	A1	19930303	EP 1992-810396	19920526
R: BE, DE, FR, GB, IT, NL				
JP 05197074	A2	19930806	JP 1992-168646	19920603
PRIORITY APPLN. INFO.:			CH 1991-1642	19910603
			CH 1991-2600	19910904

OTHER SOURCE(S): MARPAT 119:213920
GI



I

AB A photog. material is described containing multiple color photog. emulsion layers, a protective surface layer, a UV absorber layer between the protective layer and the emulsion layer where the UV absorber is I [n = 1, 2; R2, R3 = H, alkyl; when n = 1, R1 = alkyl, alkylenoxy, CO2H, CO2R4, O2CR5, glycidyl, or GR (G = bond or divalent group; R = substituted polysiloxane group) and when n = 2, R1 = alkylene, xylylene, biphenyl group, etc.; R4, R5 = alkyl]. Optionally the photog. material may contain another UV absorber. The material has improved extinction coefficient

IT **149976-03-4P 149976-04-5P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and use of, as UV absorber in photog. films)

L8 ANSWER 27 OF 40 HCAPLUS COPYRIGHT 2004 ACS on STN
ED Entered STN: 04 Sep 1993
ACCESSION NUMBER: 1993:495817 HCAPLUS Full-text
DOCUMENT NUMBER: 119:95817
TITLE: Preparation of silylated 2-(2-hydroxyphenyl)-4,6-diaryl-1,3,5-triazines as polymer stabilizers
INVENTOR(S): Meuwly, Roger; Slongo, Mario; Valet, Andreas
PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Switz.
SOURCE: Can. Pat. Appl., 39 pp.
CODEN: CPXXEB
DOCUMENT TYPE: **Patent**
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CA 2062217	AA	19920906	CA 1992-2062217	19920303

PRIORITY APPLN. INFO.: CH 1991-6565 19910305
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Title compds. [I; R1, R3 = H, OH, alkyl, cyclohexyl; R2, R4 = H, OH, alkyl, alkoxy, halo, OX(SiR11R12O)pSiR10R11R12; X = bond, alkylene, (CH2)mO), CH2CHR7O, etc.; R7 = (cyclo)alkyl, Ph, (cyclo)alkoxymethyl, phenoxymethyl; R10-R12 = alkyl, cyclohexyl, Ph, alkoxy, etc.; m = 1-4; p = 0-50] and II (r = 1-50; R15 = OH, alkoxy; R16 = H, alkyl; R15R16 = bond; R14 = (cyclo)alkyl, Ph; X as above), were prepared Thus, 2-(2,4-

dihydroxyphenyl)-4,6-bis(2,4- dimethylphenyl)-1,3,5-triazine, 3-triethylsilylpropyl glycidyl ether, and Bu4NBr were heated at 140° in xylene for 16 h to give title compound III. III at 2% in an acrylic resin lacquer composition maintained 93% of 20° gloss after 1600 h in a test according to DIN 67, 530, vs. 20% in the absence of III.

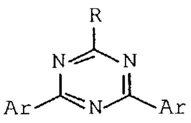
IT **1440-06-8P 137658-77-6P 137658-80-1P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as intermediate for polymer stabilizer)

IT **145024-33-5P 145024-34-6P 145024-36-8P**
145024-37-9P 145024-38-0P 145024-39-1P
145024-40-4P 145024-41-5DP, oligomers
145024-42-6P 145024-43-7P 145024-44-8P
145024-45-9P 147770-11-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as polymer stabilizer)

L8 ANSWER 28 OF 40 HCAPLUS COPYRIGHT 2004 ACS on STN
ED Entered STN: 15 Nov 1992
ACCESSION NUMBER: 1992:591877 HCAPLUS Full-text
DOCUMENT NUMBER: 117:191877
TITLE: preparation of 2-(2',4'-dihydroxyphenyl)-4,6-diaryl-s-triazines
INVENTOR(S): Burdeska, Kurt
PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Switz.
SOURCE: Eur. Pat. Appl., 10 pp.
CODEN: EPXXDW
DOCUMENT TYPE: **Patent**
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 497734	A1	19920805	EP 1992-810037	19920122
EP 497734	B1	20000510		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, PT, SE				
AT 192743	E	20000515	AT 1992-810037	19920122
ES 2146208	T3	20000801	ES 1992-810037	19920122
JP 05070443	A2	19930323	JP 1992-13498	19920129
JP 3067878	B2	20000724		
ZA 9200647	A	19920930	ZA 1992-647	19920130
BR 9200303	A	19921006	BR 1992-303	19920130
US 5182389	A	19930126	US 1992-828053	19920130

PRIORITY APPLN. INFO.: CH 1991-291 A 19910131
CH 1991-2788 A 19910923
OTHER SOURCE(S): CASREACT 117:191877; MARPAT 117:191877
GI



I

AB Title compds. I [Ar = (substituted) Ph; R = 2,4-dihydroxyphenyl] were prepared by treatment of I [R = OH] with SOCl2 at 100-150° and subsequently with 1,3-dihydroxybenzene in the presence of a Lewis acid. By this method, I [Ar = Ph] was prepared in 88% yield.

IT **38369-95-8P**

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, process for)

L8 ANSWER 29 OF 40 HCAPLUS COPYRIGHT 2004 ACS on STN

ED Entered STN: 23 Sep 1991

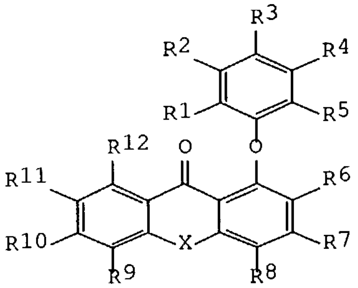
ACCESSION NUMBER:	1991:514357 HCAPLUS Full-text
DOCUMENT NUMBER:	115:114357
TITLE:	Preparation of phenoxyacridones, -xanthanes, and -thioxanthanes as photochromic compounds
INVENTOR(S):	Fischer, Evelyn; Fischer, Walter; Finter, Juergen; Meier, Kurt; Roth, Martin
PATENT ASSIGNEE(S):	Ciba-Geigy A.-G., Switz.
SOURCE:	Eur. Pat. Appl., 31 pp. CODEN: EPXXDW
DOCUMENT TYPE:	**Patent**
LANGUAGE:	German
FAMILY ACC. NUM. COUNT:	1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 430881	A2	19910605	EP 1990-810897	19901120
EP 430881	A3	19911023		
R: BE, CH, DE, FR, GB, IT, LI, NL, SE				
US 5310909	A	19940510	US 1990-616550	19901121
CA 2030955	AA	19910530	CA 1990-2030955	19901127
JP 03190870	A2	19910820	JP 1990-326148	19901129
US 5432049	A	19950711	US 1994-189822	19940201
PRIORITY APPLN. INFO.:			CH 1989-4270	19891129
			US 1990-616550	19901121

OTHER SOURCE(S): MARPAT 115:114357

GI



I

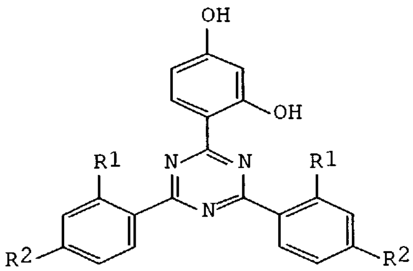
AB Title compds. I [X = O, S, SO, SO2, NR13; R1-R5 = H, alkyl, alkoxy, halo, CF3, cyano, NO2, OH, (substituted) amino, CO2H, CONH2, triazin-2-yl, etc.; or R3R4, R4R5 = CH:CHCH:CH; R6-R12 = H, alkoxy, acyloxy, halo, CF3, cyano, (substituted) alkyl, aryl, aralkyl, aroyl, aryloxy, amino, etc.; or adjacent R6-R12 = COOCO, CONR13CO; R13 = H, (substituted) alkyl, acyl, Ph, CH2Ph] are prepared as photosensitizers, color indicators, and photo-switchable elements. Thus, N-methyl-1,2,4-trichloroacridone, phenol, and K2CO3 were stirred in N-methylpyrrolidone at 100° for 18 h to give 93% I (X = NMe, R6 = R8 = Cl, others = H) (II). In two light-sensitive offset plate compns. in Stouffer wedge tests, II gave very visible images with a stability of 24 h, with the last-copied step being 9 or 10.

IT **135805-12-8P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as photochromic photosensitizer)

L8 ANSWER 30 OF 40 HCAPLUS COPYRIGHT 2004 ACS on STN
ED Entered STN: 06 Apr 1991
ACCESSION NUMBER: 1991:122423 HCAPLUS Full-text
DOCUMENT NUMBER: 114:122423
TITLE: Preparation of 2-(2',4'-dihydroxyphenyl)-4,6-diaryl-s-triazines
INVENTOR(S): Burdeska, Kurt; Guenter, Franz
PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Switz.
SOURCE: Eur. Pat. Appl., 8 pp.
CODEN: EPXXDW
DOCUMENT TYPE: **Patent**
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 395938	A2	19901107	EP 1990-107370	19900418
EP 395938	A3	19911204		
EP 395938	B1	19960117		
R: AT, CH, DE, ES, FR, GB, IT, LI, SE				
US 5084570	A	19920128	US 1990-510494	19900418
AT 133164	E	19960215	AT 1990-107370	19900418
ES 2081868	T3	19960316	ES 1990-107370	19900418
CA 2014886	AA	19901021	CA 1990-2014886	19900419
JP 02292267	A2	19901203	JP 1990-103290	19900420
JP 2857219	B2	19990217		
ZA 9002997	A	19901228	ZA 1990-2997	19900420
BR 9001844	A	19910618	BR 1990-1844	19900420
US 5106972	A	19920421	US 1991-739963	19910805

PRIORITY APPLN. INFO.: CH 1989-1536 19890421
US 1990-510494 19900418
OTHER SOURCE(S): MARPAT 114:122423
GI



I

AB The title compds. (I; R1 = H, C1-4 alkyl; R2 = C1-4 alkyl), useful as UV absorbers and starting materials, were prepared by 1) Friedel-Crafts reaction of 2,4-dichloro-6-methylthio-1,3,5-triazine (II) with 3-R2C6H4R1, 2) chlorination of the resulting 2,4-diphenyl-6-methylthio-1,3,5-triazine, and 3) Friedel-Crafts reaction of the resulting 2,6-diphenyl-6-chloro-1,3,5-triazine with 3-HOC6H4OH. Thus, II in PhMe was added over 1.5 h to AlCl3 in PhMe at 75° and the mixture was kept at 85-90° for 5.5 h to give 91.2% 2,4-bis(4-methylphenyl)-6-methylthio-1,3,5-triazine. The latter in PhMe at 55-60° was treated with SO2Cl2 in PhMe over 40 min followed by stirring for 30 min to give the 6-chloride, which was coupled with 3-HOC6H4OH to give I (R1 = H, R2 = Me).

IT **1668-53-7P 38375-15-4P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as UV absorber and intermediate)

L8 ANSWER 31 OF 40 HCAPLUS COPYRIGHT 2004 ACS on STN
ED Entered STN: 23 Feb 1991
ACCESSION NUMBER: 1991:63535 HCAPLUS Full-text
DOCUMENT NUMBER: 114:63535
TITLE: Light-stabilizers for polymers containing hindered amine and light-absorbing groups
INVENTOR(S): Ravichandran, Ramanathan; Galbo, James P.
PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Switz.
SOURCE: Eur. Pat. Appl., 26 pp.
CODEN: EPXXDW
DOCUMENT TYPE: **Patent**
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 389427	A2	19900926	EP 1990-810195	19900313
EP 389427	A3	19911127		
EP 389427	B1	19940427		
R: DE, FR, GB, IT				
US 5021478	A	19910604	US 1990-479880	19900214
CA 2012503	AA	19900921	CA 1990-2012503	19900319
CA 2012503	C	20000118		
JP 02300168	A2	19901212	JP 1990-73181	19900322
JP 2860589	B2	19990224		

PRIORITY APPLN. INFO.: US 1989-326848 A 19890321
OTHER SOURCE(S): MARPAT 114:63535

AB The title compds. are less basic than other stabilizers and so do not related curing. Refluxing Me 3-benzotriazol-2-yl-5-tert-butyl-4-hydroxyhydrocinnamate 30.0 and 4-hydroxy-1-methoxy-2,2,6,6-tetramethylpiperidine 19.1 g in xylene with distillation of H2O, cooling to 100°, adding LiNH2, and refluxing 16 h with distillation of MeOH gave 24.5 g 1-methoxy-2,2,6,6-tetramethylpiperidin-4-yl 3-benzotriazol-2-yl-5-tert-butyl-4-hydroxyhydrocinnamate.

IT **131806-94-5P 131806-95-6P**
RL: PREP (Preparation)
(light stabilizers for polymers, manufacture of)

L8 ANSWER 32 OF 40 HCAPLUS COPYRIGHT 2004 ACS on STN

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ED   Entered STN:  16 Sep 1990
ACCESSION NUMBER:         1990:497630  HCAPLUS Full-text
DOCUMENT NUMBER:          113:97630
TITLE:                    Cationic compounds, their preparation and their
                          use in the photochemical stabilization of basic
                          dyeable polyamide, polyacrylonitrile, and
                          polyester fibers
INVENTOR(S):              Hohener, Alfred; Burdeska, Kurt; Reinert,
                          Gerhard
PATENT ASSIGNEE(S):       Ciba-Geigy A.-G., Switz.
SOURCE:                   Eur. Pat. Appl., 31 pp.
                          CODEN: EPXXDW
DOCUMENT TYPE:            Patent
LANGUAGE:                 German
FAMILY ACC. NUM. COUNT:  1
PATENT INFORMATION:

     PATENT NO.        KIND  DATE          APPLICATION NO.   DATE
     ---------------   ----  --------      ---------------   --------
     EP 357545          A2   19900307      EP 1989-810525    19890712
     EP 357545          A3   19900321
         R:  CH, DE, ES, FR, GB, IT, LI
     US 5037979         A    19910806      US 1989-381438    19890718
     JP 02088546        A2   19900328      JP 1989-187597    19890721
     JP 05004388        B4   19930119
PRIORITY APPLN. INFO.:                  CH 1988-2794         19880721
OTHER SOURCE(S):          MARPAT 113:97630
GI



* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY -  AVAILABLE VIA OFFLINE PRINT *

AB    The title compds [I; R = H, OH; R1 = Q1, Q2, Q3; R2 = H, halo, alkyl,
      alkoxy, alkoxycarbonyl, CO2H; R3 = H, halo; R4, R5 = H, alkyl, alkoxy,
      halo; R6 = H, OH, CO2H; R7 = H, OH, alkoxy; n = 1,2; X = C2-8 alkylene;
      Y1,Y2 = (substituted) alkyl; Y1Y2N = 5-7 membered heterocyclyl; Y3 =
      (substituted) alkyl, alkenyl; Y1Y2Y3N = pyridyl, picolinyl; A = colorless
      anion] were prepared  Thus, 2-(2',4'-dihydroxyphenyl)-4,6-diphenyl-1,3,5-
      triazine in cyclohexanol at 60° was treated with Et2NCH2CH2Cl-HCl and then
      NaOMe.  The mixture was kept 2 h at 120° to give 4'-aminoethyl derivative
      which in PhCl at 90° was treated with Me2SO4 to give a quaternary ammonium
      salt II.  II effectively stabilized nylon 6-6 exposed to xenon or fakra
      illumination for prolonged periods.
IT    128644-07-5P 128644-08-6P 128644-10-0P
      RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);
      RACT (Reactant or reagent)
         (preparation and quaternization of, in preparation of light stabilizer)

L8   ANSWER 33 OF 40  HCAPLUS  COPYRIGHT 2004 ACS on STN
ED   Entered STN:  28 Oct 1989
ACCESSION NUMBER:         1989:553846  HCAPLUS Full-text
DOCUMENT NUMBER:          111:153846
TITLE:                    Preparation of reactive, nonyellowing triazines
                          useful as UV screening agents for polymers
INVENTOR(S):              Migdal, Cyril A.; Hines, John B.; Kluger, Edward
                          W.
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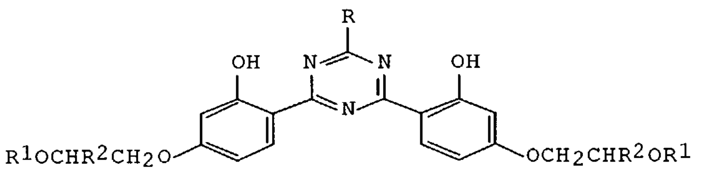
PATENT ASSIGNEE(S): Milliken Research Corp., USA
SOURCE: U.S., 6 pp.
CODEN: USXXAM
DOCUMENT TYPE: **Patent**
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4826978	A	19890502	US 1987-139342	19871229
US 4962142	A	19901009	US 1988-270871	19881114

PRIORITY APPLN. INFO.: US 1987-139342 19871229
OTHER SOURCE(S): CASREACT 111:153846; MARPAT 111:153846
GI



I

AB 2,2'-(1,3,5-Triazine-2,4-diyl)bis[5-ethoxyphenol] derivs. I (R = Ph bearing an electron-withdrawing substituent, especially Br, Cl, F; R1 = H, C2-7 acyl; R2 = H, Me) were prepared Thus, cyanuric chloride and AlCl3 were heated 18 h at 125° in PhCl to give 2,4-dichloro-6-(4-chlorophenyl)-1,3,5-triazine. AlCl3 was added to a mixture of the latter and resorcinol in PhNO2 at -10°, followed by stirring 16 h at room temperature and 4 h at 50°, to give 2-(4-chlorophenyl)-4,6-bis(2,4-dihydroxyphenyl)-1,3,5-triazine. This was etherified with ClCH2CH2OH in EtOCH2CH2OH to give I (R = 4-ClC6H4, R1 = R2 = H) (II). A polymer resin prepared from di-Me terephthalate, ethylene glycol, and 0.5 part II was clear yellow and absorbed light at 250-400 nm. Incorporation of II did not affect polymerization kinetics, nor did it sublime out or discolor the resin.

IT **1440-03-5P 2125-25-9P 25023-99-8P**
122864-81-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and etherification of, by chloroethanol)

IT **2125-28-2P 122864-76-0P 122864-77-1P**
122864-78-2P 122864-79-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as reactive light stabilizer for coating materials and polymers)

L8 ANSWER 34 OF 40 HCAPLUS COPYRIGHT 2004 ACS on STN
ED Entered STN: 17 Sep 1988
ACCESSION NUMBER: 1988:493068 HCAPLUS Full-text
DOCUMENT NUMBER: 109:93068
TITLE: Mixture of 2-oxo-2,3-dihydro-4,6-bis(3'diethylaminomethylene-4'-hydroxyphenyl)-1,3,5-triazine and 2,4,6-tris-(3'-diethylaminomethylene-4'-hydroxyphenyl)-1,3,5-

triazine
INVENTOR(S): Avanesyan, E. S.; Zaplishnyi, V. N.; Pogosyan, G. M.
PATENT ASSIGNEE(S): Institute of Organic Chemistry, Academy of Sciences, Armenian S.S.R., USSR
SOURCE: U.S.S.R. From: Otkrytiya, Izobret. 1987, (20), 103.
CODEN: URXXAF
DOCUMENT TYPE: **Patent**
LANGUAGE: Russian
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
SU 1313854	A1	19870530	SU 1985-3886605	19850417

PRIORITY APPLN. INFO.: SU 1985-3886605 19850417

AB Reaction of PhOH and cyanuric chloride at 0-10° in CCl4 in the presence of AlCl3 gives a mixture containing .apprx.80% 2,4,6-tris(4-hydroxyphenyl)-1,3,5-triazine and .apprx.20% 2-oxo-2,3-dihydro-4,6-bis(4-hydroxyphenyl)-1,3,5-triazine. This mixture can be treated with Et2NH and aqueous HCHO to give a mixture of 2,4,6-tris(3'-diethylaminomethylene-4'-hydroxyphenyl)-1,3,5-triazine and 2-oxo-2,3-dihydro-4,6-bis(3'-diethylaminomethylene-4'-hydroxyphenyl)-1,3,5-triazine.

IT **7753-13-1P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and Mannich reaction of, diethylaminomethylene derivative from)

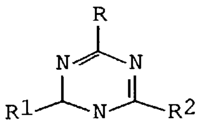
IT **115970-05-3P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

L8 ANSWER 35 OF 40 HCAPLUS COPYRIGHT 2004 ACS on STN
ED Entered STN: 03 Oct 1986
ACCESSION NUMBER: 1986:524162 HCAPLUS Full-text
DOCUMENT NUMBER: 105:124162
TITLE: Hydroxyphenyltriazines and their use as UV absorbers
INVENTOR(S): Fryberg, Mario; Jan, Gerald; Mariaca, Raul; Kramp, Ekkehard
PATENT ASSIGNEE(S): Ciba-Geigy A.-G. , Switz.
SOURCE: Eur. Pat. Appl., 60 pp.
CODEN: EPXXDW
DOCUMENT TYPE: **Patent**
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

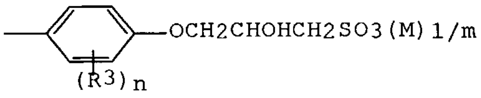
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 165608	A2	19851227	EP 1985-107628	19850620
EP 165608	A3	19861203		
EP 165608	B1	19910102		
R: BE, CH, DE, FR, GB, IT, LI, NL				
JP 61024577	A2	19860203	JP 1985-135839	19850621
JP 05017226	B4	19930308		

PRIORITY APPLN. INFO.: CH 1984-3028 19840622

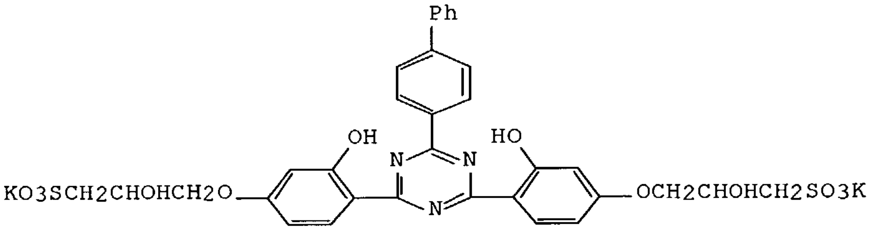
GI



I



II



III

AB Triazine derivs. of the formula I [R, R1, R2 = II (R3 = C1-4 alkyl, C1-4 alkoxy, OH, or COR4 where R4 = C1-8 alkyl or Ph; M = a cation; m = 1 or 2; n = 0-3), alkyl, aryl, heterocyclyl, and the like; and ≥1 of R-R2 is II] are described for use as UV absorbers in color photog. materials. The derivs. are incorporated at 200-400 mg/m2. Thus, a color photog. material containing a magenta coupler was exposed and processed to give a magenta d. of 1.0. This material was then coated with a gelatin layer containing III at 500 mg/m2. The material was then exposed at 20 kJ/cm2 in an alternating dry and moist atm to show a residual d. of 0.82 vs. 0.20 for a III-free control.

IT **1440-00-2P 1440-03-5P 2125-23-7P**
2125-25-9P 4000-90-2P 4604-25-5P
104209-61-2P 104209-62-3P 104209-63-4P
104209-64-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reactions of)

L8 ANSWER 36 OF 40 HCAPLUS COPYRIGHT 2004 ACS on STN
ED Entered STN: 12 May 1984
ACCESSION NUMBER: 1970:121590 HCAPLUS Full-text
DOCUMENT NUMBER: 72:121590
TITLE: Hydroxyphenyl-s-triazine protective materials against ultraviolet rays for textiles
INVENTOR(S): Duennenberger, Max; Biland, Hans R.; Luethi, Christian
PATENT ASSIGNEE(S): CIBA Ltd.
SOURCE: Patentschrift (Switz.), 22 pp.
CODEN: SWXXAS
DOCUMENT TYPE: **Patent**
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

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CH 484695 A 19700131 CH 1963-484695 19631230
PRIORITY APPLN. INFO.: CH 1963-16014 19631230

GI For diagram(s), see printed CA Issue.

AB The triazines (I) are prepared and used as uv light absorbers for textile materials such as cellulose acetate, nylon 66, poly(vinyl chloride), paper, polyethylene, and polypropylene. I are prepared by known methods, e.g., with Friedel-Crafts catalysts in inert organic solvents (R-R5 and m.p. given): OH, OH, OH, OH, OH , OH, >300°; HOCH2CH2O, OH, OH, H(OCH2CH2)2O, OH, OH, 283-5°; OH, OH, OH, OH, H, H, >300°; H2C:CHCH2O, OH, OH, CH2:CHCH2O, H, H, 178°; OH, OH, OH, PhCH2O, H, H, 242-6°; PhCH2O, OH, OH, Ph-CH2O, H, H, 171.0-2.5°; 4-ClC6H4CH2O, OH, OH, 4-ClC6H4-CH2O, H, H, 265-7°; HOCH2CH2O, OH, OH, HOCH2CH2O, H, H, 252-3°; MeCH:CHCH2O, OH, OH, MeCH:CHCH2O, H, H, 212-13°; NC(CH2)3O, OH, OH, NC(CH2)3O, H, H, 223-4°; EtO2C(CH2)3O, OH, OH, EtO2C(CH2)3O, H, H, 100-1°; Cl(CH2)3O, OH, OH, Cl(CH2)3O, H, H, 181-3°; BzCH2O, OH, OH, BzCH2O, H, H, 280-1°; H2C:CHCH2O, OH, OH, H2C:CHCH2O, H, tert-Bu, 146-7°; OH, OH, OH, H2C:CHCH2O, H, tert-Bu, 230-1°; PhCH2O, OH, OH, PhCH2O, H, tert-Bu, 212-14°; HOCH2CH2O, OH, OH, H(OCH2CH2)2O, H, tert-Bu, 181-8°; EtO2CCH2O, OH, OH, EtO2CCH2O, H, tert-Bu, 169-70°; EtO2CCH2O, OH, EtO2CCH2O, H, tert-Bu, 139-41°; H2C:CHCH2O, OH, OH, H2C:CHCH2O, H, OMe, 135.0-7.5°; PhCH2O, OH, OH, PhCH2O, H, OMe, 87-8°; EtO2CCH2O, OH, OH, EtO2CCH2O, H, OMe, 152-3°; EtO2CCH2O, OH, EtO2CCH2O, EtO2CCH2O, H, OMe, 174-6°; H2C:CHCH2O, OH, OH, H2C:CHCH2O, H, Cl, 143-4°; PhCH2O, OH, OH, PhCH2O, H, Cl, 177-8°; H2C:CHCH2O, OH, OH, H2C:CHCH2O, H, Ph, 136-7°; H2C:CHCH2O, OH, OH, H2C:CHCH2O, OH, H2C:CHCH2O, 168-9°; Ph-CH2O, OH, OH, PhCH2O, OH, OH, 249-50°; Me, Me, Me, Me, OH, OH, 197.5-8.5°; Me, Me, Me, Me, OH, H2C:CHCH2O, 141-2°; Me, Me, Me, Me, OH, HO2CCH2O, 215-16°; Me, Me, Me, Me, OH, PhCH2O, 164°; Me, Me, Me, Me, OH, 4-ClC6H4CH2O, 153-5°; Me, Me, Me, Me, OH, HOCH2CH2O, 176°; Me, Me, Me, Me, OH, EtO2CCH2O, 94-7°; Me, Me, Me, Me, OH, EtO2C(CH2)3O, 125-6°; Me, Me, Me, Me, OH, MeCH:CHCH2O, 159-60°; Me, Me, Me, Me, OH, H(OCH2CH2)2O, 93-4°. Thus, a film prepared from cellulose acetate containing 1 % I (R = HOCH2CH2O, R1 = R2 = OH, R3 = H(OCH2CH2)2O, R4 = H, R5 = tert-Bu) had transparency values, before and after 100 hr exposure in a Fade-Ometer, of 0, 9, 44, 72, and 83%, resp., at wavelengths of 280-370, 380, 390, 400, and 410 mμ.

IT **1439-98-1P** **1439-99-2P** **1440-00-2P**
1440-01-3P **1440-02-4P** **1440-03-5P**
1440-04-6P **1440-05-7P** **1440-06-8P**
1440-07-9P **1440-08-0P** **1440-09-1P**
1440-10-4P **1668-53-7P** **1908-75-4P**
1908-76-5P **1908-77-6P** **1908-78-7P**
1908-79-8P **1909-36-0P** **1909-37-1P**
1909-38-2P **1909-40-6P** **1909-41-7P**
1909-42-8P **1974-79-4P** **2125-23-7P**
2125-24-8P **2125-25-9P** **2125-26-0P**
2125-27-1P **2125-28-2P** **2125-29-3P**
2125-30-6P **2125-31-7P** **3866-22-6P**
3949-27-7P **4010-13-3P** **4018-89-7P**
4551-31-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

L8 ANSWER 37 OF 40 HCAPLUS COPYRIGHT 2004 ACS on STN
ED Entered STN: 12 May 1984
ACCESSION NUMBER: 1970:90534 HCAPLUS Full-text
DOCUMENT NUMBER: 72:90534
TITLE: Bis(o-hydroxyphenyl)-s-triazine ultraviolet stabilizers for polymers and cellulose

derivatives

INVENTOR(S): Duennenberger, Max; Biland, Hans R.; Luethi, Christian

PATENT ASSIGNEE(S): CIBA Ltd.

SOURCE: Patentschrift (Switz.), 9 pp. Addn. to Swiss 467833
CODEN: SWXXAS

DOCUMENT TYPE: **Patent**

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CH 480090	A	19691031	CH 1963-480090	19630923

PRIORITY APPLN. INFO.: CH 1963-11687 19630923

GI For diagram(s), see printed CA Issue.

AB Addition to Swiss 467,833 (see Belg. 639,329, CA 62: 16279a). Hydroxyphenyl-s-triazines with the general formula I, where R is Ph, substituted Ph, or biphenylyl, and Z is OH or alkoxy were prepared and used as uv light stabilizers for polyamides, polyloefins, poly(vinyl chloride), cellulose, and cellulose esters. Thus, 66 parts 1,3-dihydroxybenzene and 45 parts 2-phenyl-4,6-dichloro-s-triazine were dissolved in 400 parts PhNO2. Then, 42 parts AlCl3 was added while keeping the temperature at ≤20. The temperature was raised to 90-5° in 30 min and the dark-red reaction mixture was added to a mixture of H2O 1000, ice 100, and concentrated HCl 100 parts. The mixture was steam distilled to give 80 parts I (Z = OH, R = Ph), m. >300. Addnl. I similarly prepared were (Z, R, and m.p. given): OH, p-tert-butylphenyl, >300°; OH, p-tolyl, >300°; OH, p-chlorophenyl, >300°; OH, biphenylyl, >300°. I (Z = OH, R = Ph) was dissolved in HCONMe2 100, NaOH 2, H2O 10, and 2N Na2CO3 solution 20 parts. Then, 6.2 parts Me2SO4 was added in 1 hr. After 2 hr, the mixture was poured into 300 parts 5% aqueous HCl to ppt.I (R = Ph, Z = EtO, m. 233-4°). Addnl. I similarly prepared were (R, Z, and m.p. given): Ph, PrO, 174-5°; Ph, BuO, 169-70°; Ph, octyloxy, 112-3°; Ph, dodecyloxy, 105.5-6°; p-tert-butylphenyl, EtO, 183.5-4°; p-tert-butylphenyl, PrO, 178-9°; p-tert-butylphenyl, octyloxy, 132.5-3°. A mixture of polyamides prepared from hexamethylene-diamine adipate 10,000, TiO2 30, and 2,6-bis(2,4-dihydroxyphenyl)-4-phenyl-s-triazine(II) 50 parts was melt spun into filaments having better light resistance than those prepared without I. Similar results were achieved with the other compds. prepared The triazines also protected cellulose acetate, poly(vinyl chloride), polyethylene, and paper products against uv-light degradation.

IT **1439-98-1P 1440-03-5P 2125-25-9P**
4000-80-0P 4000-81-1P 4000-82-2P
4000-90-2P 4508-22-9P 4575-97-7P
4575-98-8P 4604-25-5P 4635-01-2P
4804-95-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

L8 ANSWER 38 OF 40 HCAPLUS COPYRIGHT 2004 ACS on STN

ED Entered STN: 12 May 1984

ACCESSION NUMBER: 1970:79103 HCAPLUS Full-text

DOCUMENT NUMBER: 72:79103

TITLE: o-Hydroxyphenyl-s-triazine ultraviolet absorbers

INVENTOR(S): Duennenberger, Max; Biland, Hans R.; Luethi, Christian

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PATENT ASSIGNEE(S):      CIBA Ltd.
SOURCE:                  Patentschrift (Switz.), 7 pp.  Addn. to Swiss
                         467833
                         CODEN: SWXXAS
DOCUMENT TYPE:           Patent
LANGUAGE:                German
FAMILY ACC. NUM. COUNT:  1
PATENT INFORMATION:

     PATENT NO.          KIND  DATE          APPLICATION NO.     DATE
     ---------------     ----  --------      ---------------     --------
     CH 480091            A    19691031      CH 1963-480091      19630923
PRIORITY APPLN. INFO.:                    CH 1963-11688          19630923
GI   For diagram(s), see printed CA Issue.
AB   Addition to Swiss 467,833.  2-Chloro-4,6-bis(2,4-dimethylphenyl)-s-
     triazine is reacted with resorcinol in the presence of AlCl3 to prepare I
     (R = H) (Ia), m. 197.5-8.5° (H2O-HCONMe2).  Ia is treated with Me2SO4,
     Et2SO4, PrBr, and octyl bromide in water or HCONMe2 in the presence of NaOH
     to prepare I (R = Me), m. 179.5-180.0° (benzene-MeOH), I (R = Et) (Ib), m.
     155-6°, I (R = Pr), m. 128.5-9.0° (CH2Cl2-EtOH) and I (R = octyl), m. 83.5-
     4.0°.  I are useful as uv light absorbers for increasing the light
     stability of cellulose acetate (II), polyamides, poly(vinyl chloride),
     paper, polyethylene, and similar materials.  Thus, II film containing 1% Ib
     was undamaged after 100 hr aging in a Fade-Ometer.
IT   1668-53-7P 1820-28-6P 1820-29-7P
     2725-22-6P 3882-65-3P
     RL: SPN (Synthetic preparation); PREP (Preparation)
        (preparation of)

L8   ANSWER 39 OF 40  HCAPLUS  COPYRIGHT 2004 ACS on STN
ED   Entered STN:  12 May 1984
ACCESSION NUMBER:        1968:437113  HCAPLUS Full-text
DOCUMENT NUMBER:         69:37113
TITLE:                   Bis(2-hydroxy-1-naphthyl)-s-triazine dyes
PATENT ASSIGNEE(S):      CIBA Ltd.
SOURCE:                  Brit., 6 pp.
                         CODEN: BRXXAA
DOCUMENT TYPE:           Patent
LANGUAGE:                English
FAMILY ACC. NUM. COUNT:  1
PATENT INFORMATION:

     PATENT NO.          KIND  DATE          APPLICATION NO.     DATE
     ---------------     ----  --------      ---------------     --------
     GB 1107143           A    19680320      GB 1967-4249        19670127
PRIORITY APPLN. INFO.:                    CH 1966-18126      A   19661219
GI   For diagram(s), see printed CA Issue.
AB   The title compds. of general formula I are prepared by Friedel-Crafts
     condensation of a di- or trichloro-s-triazine with 2-C10H7OH (II). I are
     thermally stable, yellow compds. which dye polyamides, poly(ethylene
     terephthalate), polypropylene, and poly(vinyl chloride) yellow shades by
     coating or melt-spinning.  Thus, a mixture of 67 parts powdered AlCl3, 72
     parts II, and 31 parts cyanuric chloride in 500 vols. C2H2Cl4 is heated at
     140-5° for 4 hrs., cooled, treated with dilute  HCl, steam distilled,
     extracted into 4N NaOH, and precipitated with dilute HCl to give 80 parts
     yellow I (R = 2,1-HOC10H6, X = H). Similarly other I (X = H) are prepared
     (R, % yield, and recrystn. solvent given): Ph, .apprx.100, CHCl3; 4-ClC6H4,
     -, -; 2-thienyl, -, PhMe; 4,1-MeC10H6, -, PhMe; 5-acenaphthenyl, -, -; 4,1-
```

MeOC10H6, -, - (m. 280-1°); cyclohexyl, -, -; pyrenyl, -, -; Me, -, -. 2-Phenyl-4,6-dichloro-s-triazine and 2,7-C10H6(OH)2 gave I (R = Ph, X = OH), yellow needles (PhNO2).

IT **17419-37-3P 19662-11-4P 19746-69-1P**
19869-69-3P 20075-80-3P 20075-81-4P
20572-37-6P
RL: IMF (Industrial manufacture); PREP (Preparation)
(preparation of)

L8 ANSWER 40 OF 40 HCAPLUS COPYRIGHT 2004 ACS on STN
ED Entered STN: 12 May 1984
ACCESSION NUMBER: 1968:410484 HCAPLUS Full-text
DOCUMENT NUMBER: 69:10484
TITLE: hydroxyphenyl-1,3,5-triazine derivatives containing sulfonic groups for e catalyst.ang.
PATENT ASSIGNEE(S): CIBA Ltd.
SOURCE: Fr., 18 pp.
CODEN: FRXXAK
DOCUMENT TYPE: **Patent**
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 1494413		19670808		
CH 478589			CH	
DE 1670384			DE	
GB 1125239			GB	
US 3444164		19690000	US	

PRIORITY APPLN. INFO.: CH 19650924

GI For diagram(s), see printed CA Issue.

AB The title compds., which are used as stabilizers for perfumes, soaps, coatings, paints, and gelatin in photographic plates, are prepared by treating hydroxyphenyl-1,3,5-triazine with an alkanesultone in an inert organic solvent in the presence of an alkali. Thus, 12.2 parts propanesultone (I) in 120 parts Me2CO was added to a solution containing NaOH 5.7, 2,4-bis(2,4-dimethylphenyl)-6-(2,4- dihydroxyphenyl)-1,3,5-triazine (II) (Fr. 1379138) 40, and Me2CO 800 parts. The mixture was stirred 2 hrs. at 35° and 2 hrs. at 45°, refluxed 18 hrs., cooled in ice, and filtered to give III, m. 330° (HCONMe2-alc.). III was converted to the free acid by cation-exchange resins. III (5.7 parts in 300 parts H2O was treated at 70-80° with a solution of 20 parts Pb(NO3)2 in 200 parts H2O, cooled to 15°, filtered, and the residue dried in vacuo at 120° to give the Pb derivative softening at 230° and m. >320°. Pb(NO3)2 could be replaced by BaCl2.2H2O, NiCl2.6H2O, CoSO4.7H2O, ZnCl2, CaCl2, CuCl2, and CdCl2 to give III metal derivs., m. >320°, 290-320°, 295-300°, 250-6°, >310°, <188°, and <310°, resp. Other hydroxyphenyl-1,3,5-triazines (IV) were treated similarly with I [R1, R2, and m.p. (of the product) given]: Cl, H, -; H, H, <300°; tert-Bu, H, <310°; OMe, H, <300°; Ph, H, 300°; H, H, <300°; and OH, OH, <300°. II when treated similarly with butanesultone and NaOH gave a product m. >300°. A composition containing poly(vinyl chloride) 100, dioctyl phthalate 59, and Pb derivative of III 0.1 part was calendered at 145-50° to a 0.5-mm. film. This film absorped light completely at 280-370 mμ. By heating the film at 170°, it showed less yellowing than a control composition free of III derivative

IT **18499-17-7P 18503-28-1P**
RL: SPN (Synthetic preparation); PREP (Preparation)

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      (preparation of)

E1 THROUGH E267 ASSIGNED

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231,240,241,249,252,254,255,266 ide can <- Random Strs./RNs displayed

L9   ANSWER 1 OF 267  REGISTRY  COPYRIGHT 2004 ACS on STN
RN   299956-40-4  REGISTRY
CN   2-Propenoic acid, 2-methyl-, 6-[2-[4,6-bis[2-hydroxy-4-(1-
     methylpropoxy)phenyl]-1,3,5-triazin-2-yl]-5-(1-
     methylpropoxy)phenoxy]hexyl ester, homopolymer (9CI)  (CA INDEX
     NAME)
MF   (C43 H55 N3 O8)x
CI   PMS
PCT  Polyacrylic
SR   CA
LC   STN Files:   CA, CAPLUS

     CM   1
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CMF  C43 H55 N3 O8
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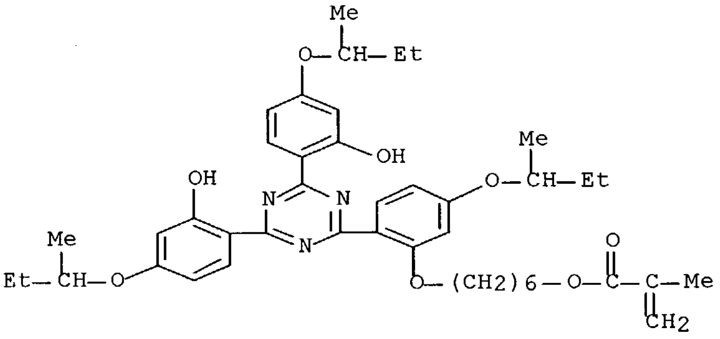

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               1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE    1:  133:288772

L9   ANSWER 2 OF 267  REGISTRY  COPYRIGHT 2004 ACS on STN
RN   290298-97-4  REGISTRY
CN   Octanoic acid, 2-[4-(4,6-diphenyl-1,3,5-triazin-2-yl)-3-
     hydroxyphenoxy]ethyl ester (9CI)  (CA INDEX NAME)
FS   3D CONCORD
MF   C31 H33 N3 O4
SR   CA
LC   STN Files:   CA, CAPLUS, USPATFULL
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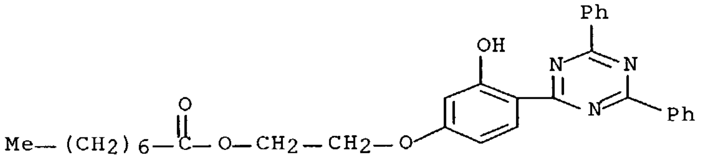

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               2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE    1:  133:253642

REFERENCE    2:  133:209029

L9   ANSWER 3 OF 267  REGISTRY  COPYRIGHT 2004 ACS on STN
RN   260249-71-6  REGISTRY
CN   1,3-Benzenediol, 4-[4,6-bis(5,6,7,8-tetrahydro-2-naphthalenyl)-1,3,5-
     triazin-2-yl]-6-hexyl- (9CI)  (CA INDEX NAME)
FS   3D CONCORD
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MF    C35 H39 N3 O2
SR    CA
LC    STN Files:   CA, CAPLUS
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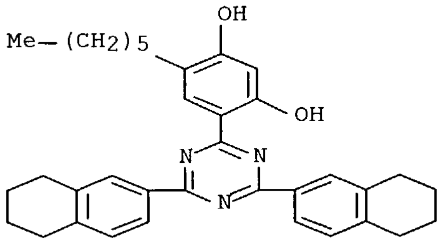

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REFERENCE    1:  132:195212

L9    ANSWER 6 OF 267  REGISTRY  COPYRIGHT 2004 ACS on STN
RN    253133-71-0  REGISTRY
CN    1,3-Benzenediol, 4,4'-[6-(5,6,7,8-tetrahydro-2-naphthalenyl)-1,3,5-
      triazine-2,4-diyl]bis- (9CI)  (CA INDEX NAME)
FS    3D CONCORD
MF    C25 H21 N3 O4
SR    CA
LC    STN Files:   CA, CAPLUS, TOXCENTER, USPAT2, USPATFULL
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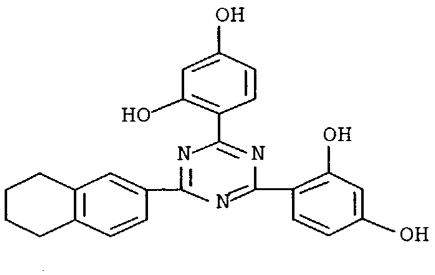

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REFERENCE    1:  132:195212

REFERENCE    2:  132:64950

L9    ANSWER 7 OF 267  REGISTRY  COPYRIGHT 2004 ACS on STN
RN    252285-62-4  REGISTRY
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```
CN   Phenol, 2-[4-phenyl-6-(4-propoxyphenyl)-1,3,5-triazin-2-yl]- (9CI)
     (CA INDEX NAME)
FS   3D CONCORD
MF   C24 H21 N3 O2
SR   CA
LC   STN Files:   CA, CAPLUS
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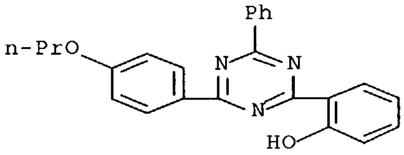

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REFERENCE   1:  132:36913

L9   ANSWER 10 OF 267  REGISTRY  COPYRIGHT 2004 ACS on STN
RN   222529-72-8  REGISTRY
CN   Phenol, 2,2'-[6-(2,4-dimethylphenyl)-1,3,5-triazine-2,4-diyl]bis[5-
     [(2-hydroxy-4,7,10,13-tetraoxatetradec-1-yl)oxy]-6-methyl- (9CI)
     (CA INDEX NAME)
FS   3D CONCORD
MF   C45 H63 N3 O14
SR   CA
LC   STN Files:   CA, CAPLUS
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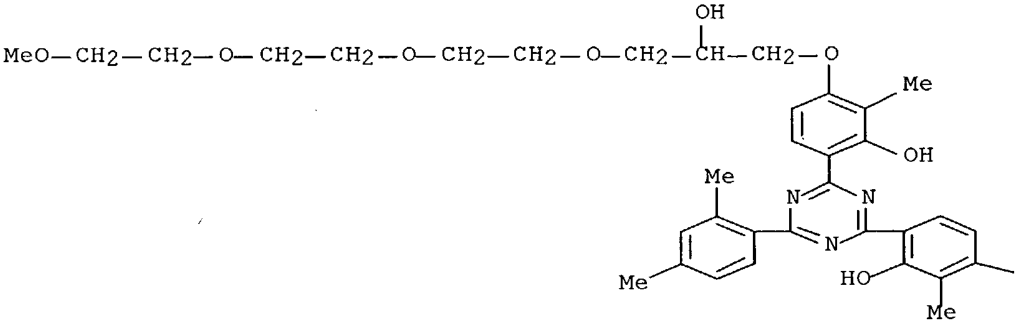
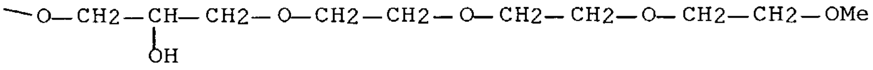
PAGE 1-A



PAGE 1-B



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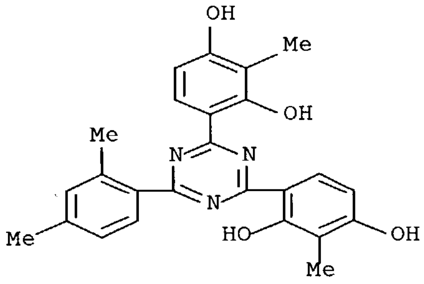
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 135:202947

REFERENCE 2: 130:283116

L9 ANSWER 16 OF 267 REGISTRY COPYRIGHT 2004 ACS on STN
RN **221653-84-5** REGISTRY
CN 1,3-Benzenediol, 4,4'-[6-(2,4-dimethylphenyl)-1,3,5-triazine-2,4-diyl]bis[2-methyl- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C25 H23 N3 O4
SR CA
LC STN Files: CA, CAPLUS



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2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 130:283116

REFERENCE 2: 130:253785

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L9    ANSWER 18 OF 267  REGISTRY  COPYRIGHT 2004 ACS on STN
RN    208404-09-5  REGISTRY
CN    Methanone, [5-[[3-[4,6-bis(2,4-dimethylphenyl)-1,3,5-triazin-2-yl]-2-
      hydroxy-6-(octyloxy)phenyl]methyl]-4,6-dihydroxy-1,3-
      phenylene]bis[phenyl-  (9CI)   (CA INDEX NAME)
FS    3D CONCORD
MF    C54 H53 N3 O6
SR    CA
LC    STN Files:   CA, CAPLUS, USPATFULL
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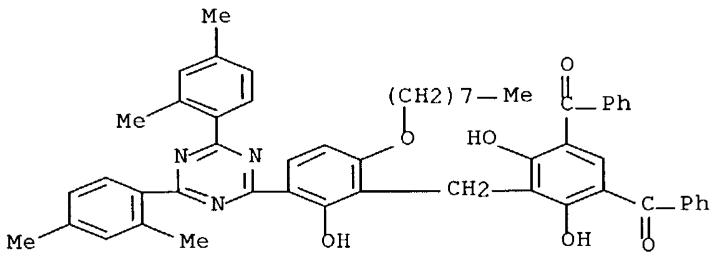

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REFERENCE    1:  129:40976
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L9    ANSWER 19 OF 267  REGISTRY  COPYRIGHT 2004 ACS on STN
RN    205178-63-8  REGISTRY
CN    Pentanoic acid, 2-[4-[4,6-bis([1,1'-biphenyl]-4-yl)-1,3,5-triazin-2-
      yl]-3-hydroxyphenoxy]-, isooctyl ester (9CI)   (CA INDEX NAME)
MF    C46 H47 N3 O4
CI    IDS
SR    CA
LC    STN Files:   CA, CAPLUS, USPATFULL
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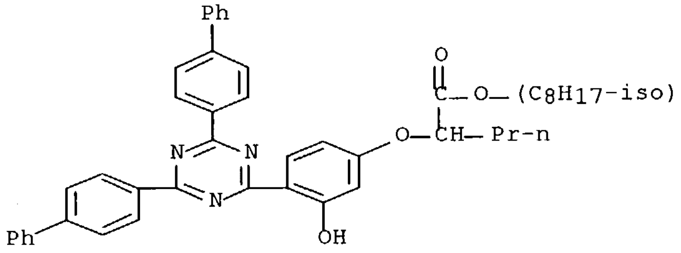

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               1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE    1:  128:263871
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L9   ANSWER 20 OF 267  REGISTRY  COPYRIGHT 2004 ACS on STN
RN   204989-93-5  REGISTRY
CN   Pentanoyl chloride, 2-[4-[4,6-bis([1,1'-biphenyl]-4-yl)-1,3,5-
     triazin-2-yl]-3-hydroxyphenoxy]- (9CI)  (CA INDEX NAME)
FS   3D CONCORD
MF   C38 H30 Cl N3 O3
SR   CA
LC   STN Files:   CA, CAPLUS, USPATFULL
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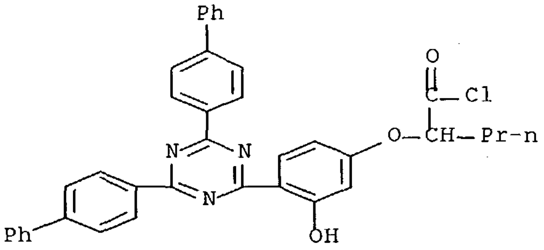

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                1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE    1:  128:263871
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L9   ANSWER 22 OF 267  REGISTRY  COPYRIGHT 2004 ACS on STN
RN   204848-61-3  REGISTRY
CN   Phenol, 2-(4,6-diphenyl-1,3,5-triazin-2-yl)-5-[2-hydroxy-3-
     [(methylcyclohexyl)oxy]propoxy]- (9CI)  (CA INDEX NAME)
MF   C31 H33 N3 O4
CI   IDS
SR   CA
LC   STN Files:   CA, CAPLUS, USPATFULL
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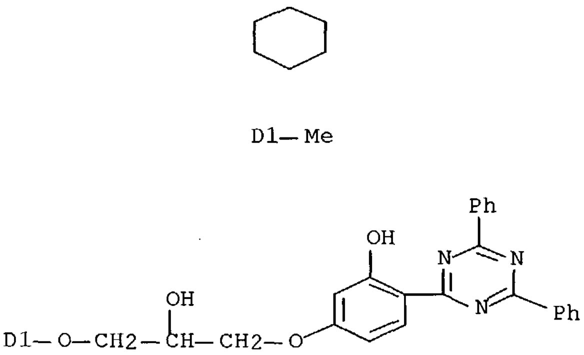

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                1 REFERENCES IN FILE CAPLUS (1907 TO DATE)
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REFERENCE   1:  128:244776

L9    ANSWER 28 OF 267  REGISTRY  COPYRIGHT 2004 ACS on STN
RN    204591-31-1  REGISTRY
CN    Cyclohexanecarboxylic acid, 3-[4-[4,6-bis(2,4-dimethylphenyl)-1,3,5-
      triazin-2-yl]-3-hydroxyphenoxy]-2-hydroxypropyl ester (9CI)  (CA
      INDEX NAME)
FS    3D CONCORD
MF    C35 H39 N3 O5
SR    CA
LC    STN Files:   CA, CAPLUS, USPATFULL
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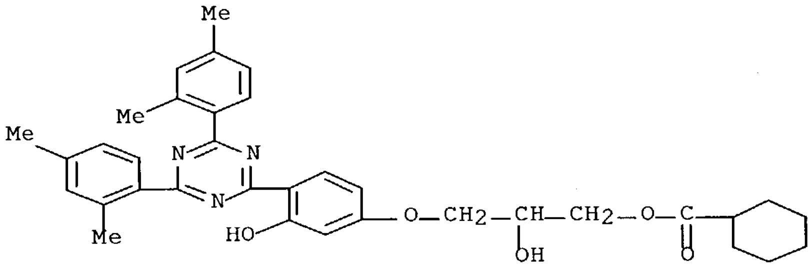

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REFERENCE   1:  128:244776

L9    ANSWER 44 OF 267  REGISTRY  COPYRIGHT 2004 ACS on STN
RN    204590-99-8  REGISTRY
CN    Phenol, 2,2'-[6-(2,4,6-trimethylphenyl)-1,3,5-triazine-2,4-
      diyl]bis[5-[2-hydroxy-3-[(1,7,7-trimethylbicyclo[2.2.1]hept-2-
      yl)oxy]propoxy]- (9CI)  (CA INDEX NAME)
FS    3D CONCORD
MF    C50 H65 N3 O8
SR    CA
LC    STN Files:   CA, CAPLUS, USPATFULL

                                                          PAGE 1-A
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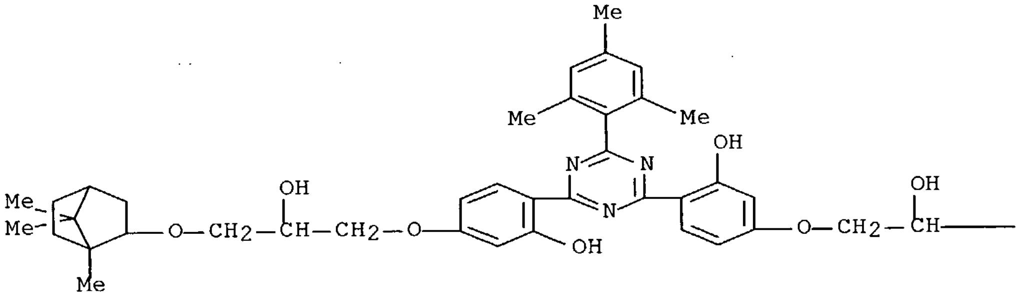

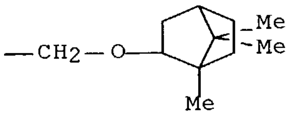

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                 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE    1:  128:244776

L9   ANSWER 77 OF 267  REGISTRY  COPYRIGHT 2004 ACS on STN
RN   204583-54-0  REGISTRY
CN   Butanoic acid, 2-[4-[4,6-bis([1,1'-biphenyl]-4-yl)-1,3,5-triazin-2-
     yl]-3-hydroxyphenoxy]-, ethyl ester (9CI)  (CA INDEX NAME)
FS   3D CONCORD
MF   C39 H33 N3 O4
SR   CA
LC   STN Files:   CA, CAPLUS, USPATFULL
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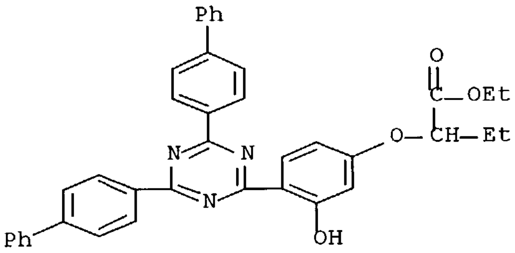

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REFERENCE    2:  128:245237
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L9   ANSWER 93 OF 267  REGISTRY  COPYRIGHT 2004 ACS on STN
RN   202412-08-6  REGISTRY
CN   Propanoic acid, 2-[4-[4,6-bis([1,1'-biphenyl]-4-yl)-1,3,5-triazin-2-
     yl]-3-hydroxyphenoxy]-, ethyl ester (9CI)  (CA INDEX NAME)
FS   3D CONCORD
MF   C38 H31 N3 O4
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LC   STN Files:   CA, CAPLUS, USPAT2, USPATFULL
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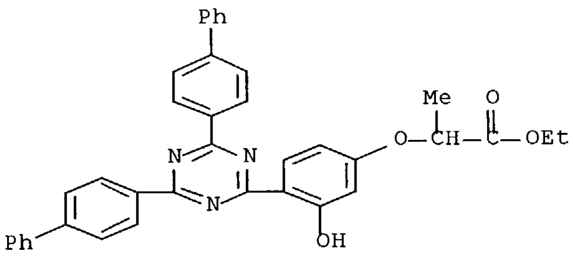

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                3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE   1:  128:263871

REFERENCE   2:  128:245237

REFERENCE   3:  128:154827
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L9   ANSWER 94 OF 267  REGISTRY  COPYRIGHT 2004 ACS on STN
RN   202411-96-9  REGISTRY
CN   1,2-Propanediol, 3-[4-[4,6-bis([1,1'-biphenyl]-4-yl)-1,3,5-triazin-2-
     yl]-3-hydroxyphenoxy]- (9CI)  (CA INDEX NAME)
FS   3D CONCORD
MF   C36 H29 N3 O4
SR   CA
LC   STN Files:   CA, CAPLUS, USPAT2, USPATFULL
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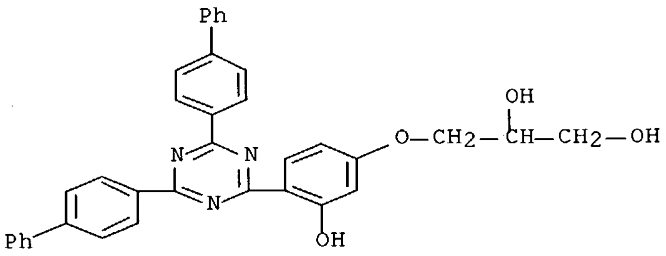

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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**
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                   2 REFERENCES IN FILE CA (1907 TO DATE)
                   1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
                   2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE    1:   128:263871

REFERENCE    2:   128:154827

L9    ANSWER 97 OF 267  REGISTRY  COPYRIGHT 2004 ACS on STN
RN    201988-34-3  REGISTRY
CN    1,4-Benzenedicarboxylic acid, bis[2-[4-[4,6-bis(2,4-dimethylphenyl)-
      1,3,5-triazin-2-yl]-3-hydroxyphenoxy]ethyl] ester (9CI)  (CA INDEX
      NAME)
FS    3D CONCORD
MF    C62 H56 N6 O8
SR    CA
LC    STN Files:   CA, CAPLUS
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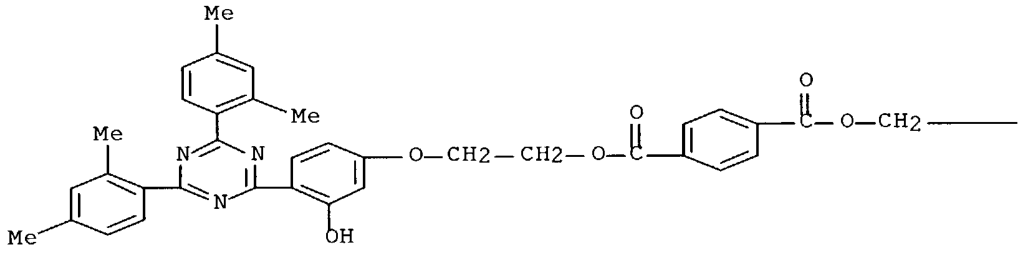
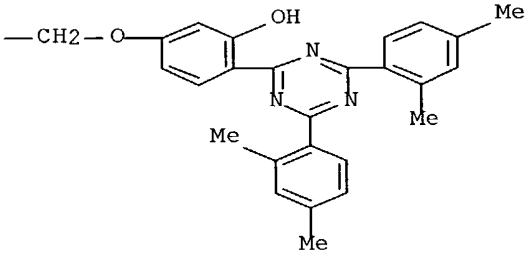
PAGE 1-A



PAGE 1-B



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                   1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE    1:   128:154905
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L9   ANSWER 99 OF 267  REGISTRY  COPYRIGHT 2004 ACS on STN
RN   201987-26-0  REGISTRY
CN   Phenol, 6-[4,6-bis(2,4-dimethylphenyl)-1,3,5-triazin-2-yl]-2-methyl-
     3-propoxy- (9CI)  (CA INDEX NAME)
FS   3D CONCORD
MF   C29 H31 N3 O2
SR   CA
LC   STN Files:   CA, CAPLUS
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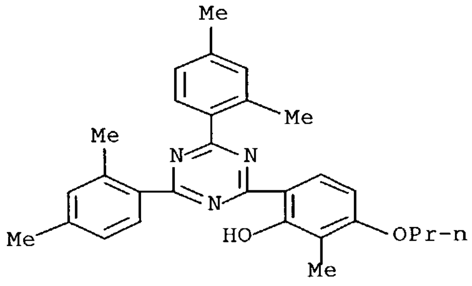

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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

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               1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE   1:  128:154904

L9   ANSWER 101 OF 267  REGISTRY  COPYRIGHT 2004 ACS on STN
RN   188753-57-3  REGISTRY
CN   2-Propenoic acid, 2-methyl-, 3-[4-[4,6-bis(2,4-dimethylphenyl)-1,3,5-
     triazin-2-yl]-3-hydroxyphenoxy]-2-methylpropyl ester, homopolymer
     (9CI)  (CA INDEX NAME)
MF   (C33 H35 N3 O4)x
CI   PMS
PCT  Polyacrylic
SR   CA
LC   STN Files:   CA, CAPLUS

     CM   1

     CRN  188753-56-2
     CMF  C33 H35 N3 O4
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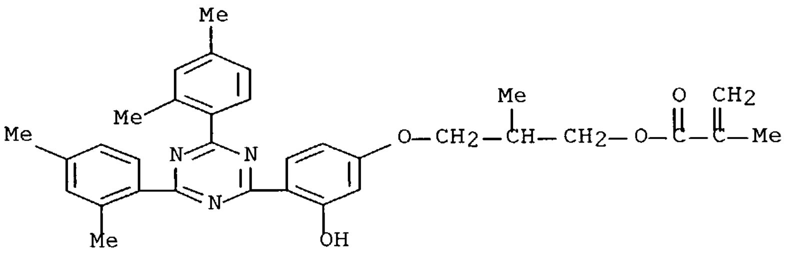

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                  1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE    1:   126:278290

L9    ANSWER 102 OF 267  REGISTRY  COPYRIGHT 2004 ACS on STN
RN    187148-12-5  REGISTRY
CN    Phenol, 6-[4,6-bis(2,4-dimethylphenyl)-1,3,5-triazin-2-yl]-2-(2-
      propenyl)-3-(2-propenyloxy)- (9CI)  (CA INDEX NAME)
FS    3D CONCORD
MF    C31 H31 N3 O2
SR    CA
LC    STN Files:   CA, CAPLUS
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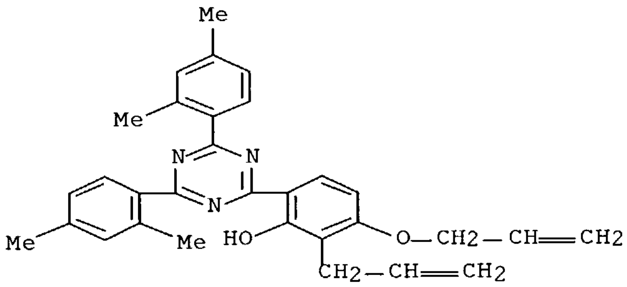

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                  1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE    1:   126:186113

L9    ANSWER 106 OF 267  REGISTRY  COPYRIGHT 2004 ACS on STN
RN    185155-08-2  REGISTRY
CN    Phenol, 2-(4,6-diphenyl-1,3,5-triazin-2-yl)-5-(hexyloxy)-4-(1-
      piperidinylmethyl)- (9CI)  (CA INDEX NAME)
FS    3D CONCORD
MF    C33 H38 N4 O2
SR    CA
LC    STN Files:   CA, CAPLUS, USPATFULL
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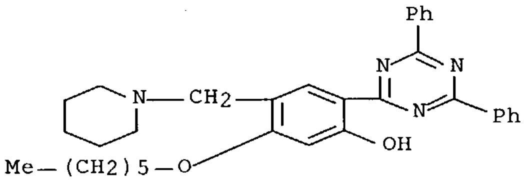

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               1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE    1:  126:60907

L9   ANSWER 110 OF 267  REGISTRY  COPYRIGHT 2004 ACS on STN
RN   184782-88-5  REGISTRY
CN   Phenol, 2-(4,6-diphenyl-1,3,5-triazin-2-yl)-5-(2-hydroxyethoxy)-
     (9CI)  (CA INDEX NAME)
OTHER NAMES:
CN   2-[2-Hydroxy-4-(2-hydroxyethoxy)phenyl]-4,6-diphenyl-1,3,5-triazine
FS   3D CONCORD
MF   C23 H19 N3 O3
SR   CA
LC   STN Files:   CA, CAPLUS, USPATFULL
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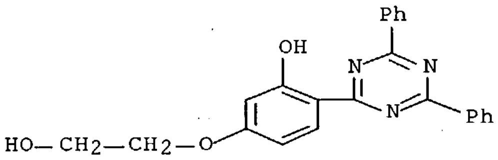

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               7 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE    1:  139:308594

REFERENCE    2:  137:311720

REFERENCE    3:  133:310514

REFERENCE    4:  133:253642

REFERENCE    5:  133:209029

REFERENCE    6:  131:74460

REFERENCE    7:  126:39782

L9   ANSWER 111 OF 267  REGISTRY  COPYRIGHT 2004 ACS on STN
RN   182918-22-5  REGISTRY
CN   Phenol, 2-[4,6-bis([1,1'-biphenyl]-4-yl)-1,3,5-triazin-2-yl]-5-(3-
     butoxy-2-hydroxypropoxy)- (9CI)  (CA INDEX NAME)
FS   3D CONCORD
MF   C40 H37 N3 O4
SR   CA
LC   STN Files:   CA, CAPLUS, USPAT2, USPATFULL
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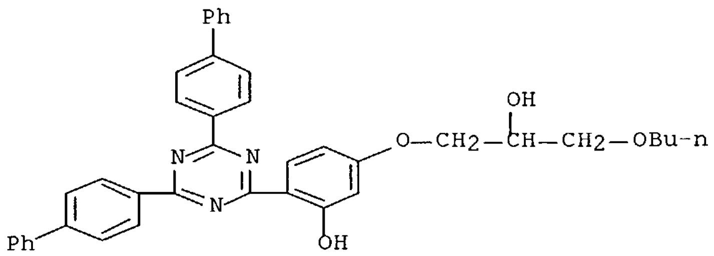

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               4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE   1:  135:77694

REFERENCE   2:  128:263871

REFERENCE   3:  128:245237

REFERENCE   4:  125:301025

L9    ANSWER 113 OF 267  REGISTRY  COPYRIGHT 2004 ACS on STN
RN    178905-30-1  REGISTRY
CN    Phenol, 2,2'-[6-(2,4,6-trimethylphenyl)-1,3,5-triazine-2,4-
      diyl]bis[5-(3-butoxy-2-hydroxypropoxy)- (9CI)  (CA INDEX NAME)
OTHER NAMES:
CN    2,4-Bis[2-hydroxy-4-(3-butyloxy-2-hydroxypropoxy)phenyl]-6-mesityl-s-
      triazine
CN    2,4-Bis[4-(3-butoxy-2-hydroxypropyloxy)-2-hydroxyphenyl]-6-(2,4,6-
      trimethylphenyl)-1,3,5-triazine
CN    2-(2,4,6-Trimethylphenyl)-4,6-bis[2-hydroxy-4-(3-butyloxy-2-
      hydroxypropyloxy)-phenyl]-s-triazine
FS    3D CONCORD
MF    C38 H49 N3 O8
SR    CA
LC    STN Files:   CA, CAPLUS, USPAT2, USPATFULL
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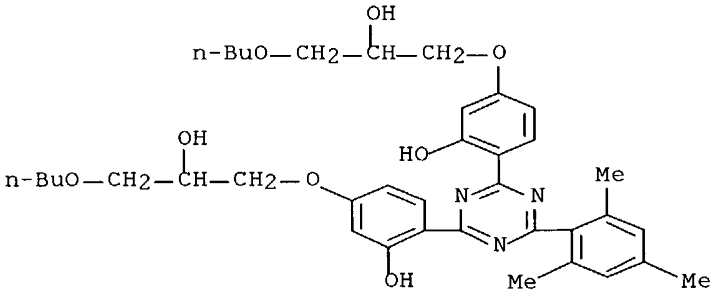

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                  8 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE   1:  140:60548

REFERENCE   2:  137:295661

REFERENCE   3:  135:99701

REFERENCE   4:  135:53459

REFERENCE   5:  134:327599

REFERENCE   6:  133:351224

REFERENCE   7:  129:244802

REFERENCE   8:  125:88154

L9    ANSWER 114 OF 267  REGISTRY  COPYRIGHT 2004 ACS on STN
RN    176225-63-1  REGISTRY
CN    1,3-Benzenediol, 4,4'-[6-(2,4,6-trimethylphenyl)-1,3,5-triazine-2,4-
      diyl]bis- (9CI)  (CA INDEX NAME)
FS    3D CONCORD
MF    C24 H21 N3 O4
CI    COM
SR    CA
LC    STN Files:   CA, CAPLUS, USPATFULL
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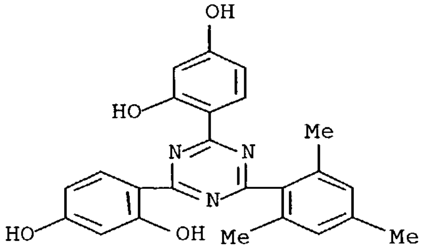

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                  5 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE   1:  131:200855

REFERENCE   2:  128:244776

REFERENCE   3:  125:34339

REFERENCE   4:  124:328374
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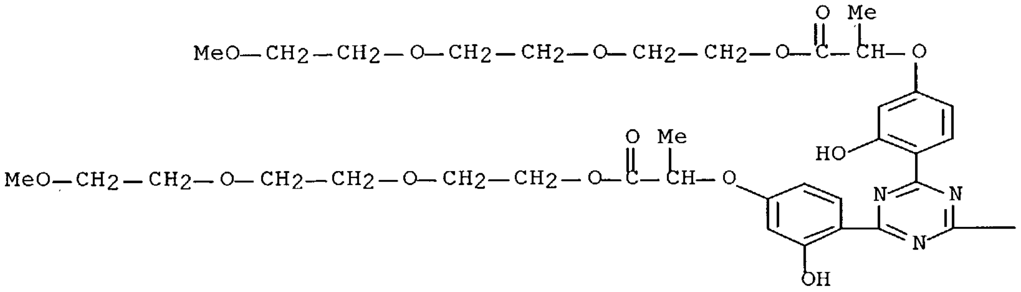
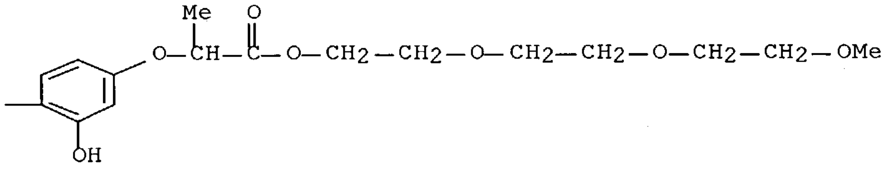
L9 ANSWER 116 OF 267 REGISTRY COPYRIGHT 2004 ACS on STN
RN **175648-94-9** REGISTRY
CN Propanoic acid, 2,2',2''-[1,3,5-triazine-2,4,6-triyltris[(3-hydroxy-4,1-phenylene)oxy]]tris-, tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl] ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C51 H69 N3 O21
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

PAGE 1-A


O
Me
MeO—CH2—CH2—O—CH2—CH2—O—CH2—CH2—O—C—CH—O
O
Me
HO
MeO—CH2—CH2—O—CH2—CH2—O—CH2—CH2—O—C—CH—O
N
N
N
OH

PAGE 1-B



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1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 124:274368

L9 ANSWER 130 OF 267 REGISTRY COPYRIGHT 2004 ACS on STN
RN **164157-09-9** REGISTRY
CN Phenol, 2-[4-(2-methoxyphenyl)-6-(4-methoxyphenyl)-1,3,5-triazin-2-yl]- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C23 H19 N3 O3
SR CA

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LC   STN Files:   CA, CAPLUS, USPATFULL
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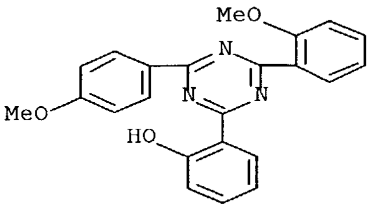

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               5 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE   1:  126:216456

REFERENCE   2:  126:190759

REFERENCE   3:  124:120048

REFERENCE   4:  123:290487

REFERENCE   5:  123:33100

L9   ANSWER 133 OF 267  REGISTRY  COPYRIGHT 2004 ACS on STN
RN   163392-79-8  REGISTRY
CN   Phenol, 2-[1,2-dihydro-4,6-bis(4-methoxyphenyl)-1,3,5-triazin-2-yl]-
     6-methoxy- (9CI)  (CA INDEX NAME)
FS   3D CONCORD
MF   C24 H23 N3 O4
SR   CA
LC   STN Files:   CA, CAPLUS, CASREACT, USPATFULL
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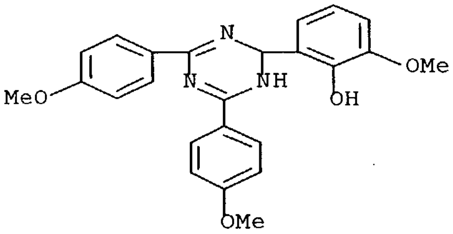

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               3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE   1:  126:47243
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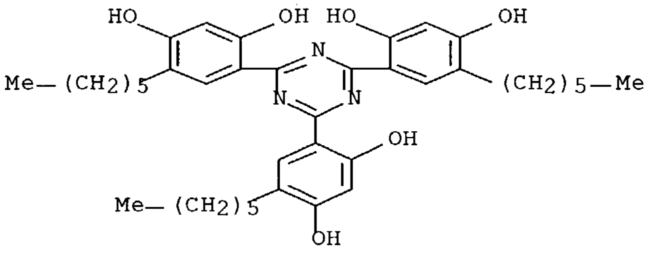
REFERENCE 2: 123:55930

REFERENCE 3: 122:314580

L9 ANSWER 140 OF 267 REGISTRY COPYRIGHT 2004 ACS on STN
RN **162920-89-0** REGISTRY
CN 1,3-Benzenediol, 4,4',4''-(1,3,5-triazine-2,4,6-triyl)tris[6-hexyl- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C39 H51 N3 O6
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



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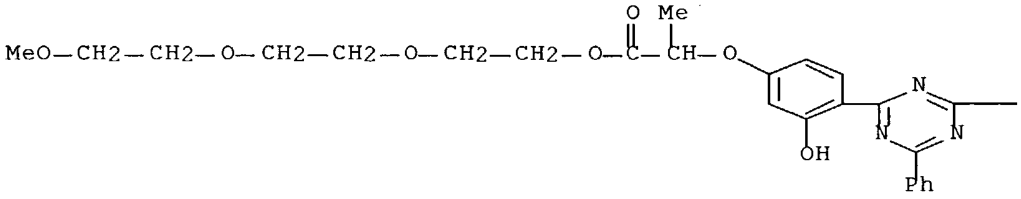
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

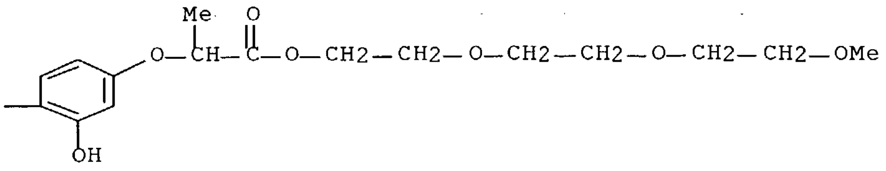
REFERENCE 1: 123:86057

REFERENCE 2: 122:268205

L9 ANSWER 149 OF 267 REGISTRY COPYRIGHT 2004 ACS on STN
RN **160907-28-8** REGISTRY
CN Propanoic acid, 2,2'-[(6-phenyl-1,3,5-triazine-2,4-diyl)bis[(3-hydroxy-4,1-phenylene)oxy]]bis-, bis[2-[2-(2-methoxyethoxy)ethoxy]ethyl] ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C41 H51 N3 O14
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

PAGE 1-A





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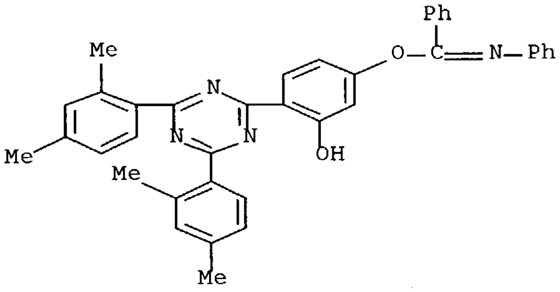
2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 124:274368

REFERENCE 2: 122:108774

L9 ANSWER 158 OF 267 REGISTRY COPYRIGHT 2004 ACS on STN
RN **157550-41-9** REGISTRY
CN Benzenecarboximidic acid, N-phenyl-, 4-[4,6-bis(2,4-dimethylphenyl)-1,3,5-triazin-2-yl]-3-hydroxyphenyl ester (9CI) (CA INDEX NAME)
MF C38 H32 N4 O2
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 121:158809

L9 ANSWER 160 OF 267 REGISTRY COPYRIGHT 2004 ACS on STN
RN **154825-62-4** REGISTRY
CN Phenol, 2-[4-(4-methoxyphenyl)-6-phenyl-1,3,5-triazin-2-yl]- (9CI) (CA INDEX NAME)
FS 3D CONCORD

```
MF    C22 H17 N3 O2
SR    CA
LC    STN Files:   CA, CAPLUS, CHEMLIST, USPATFULL
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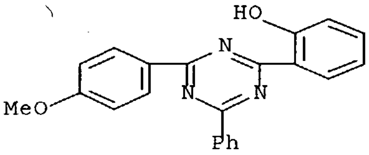

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REFERENCE   2:  139:118129

REFERENCE   3:  137:338627

REFERENCE   4:  132:36913

REFERENCE   5:  130:196673

REFERENCE   6:  126:216456

REFERENCE   7:  126:190759

REFERENCE   8:  120:298646

L9    ANSWER 162 OF 267  REGISTRY  COPYRIGHT 2004 ACS on STN
RN    154306-61-3  REGISTRY
CN    Spiro[isobenzofuran-1(3H),9'-[9H]xanthen]-3-one,
      6'-(diethylamino)-2'-(4,6-diphenyl-1,3,5-triazin-2-yl)-3'-hydroxy-
      (9CI)  (CA INDEX NAME)
FS    3D CONCORD
MF    C39 H30 N4 O4
SR    CA
LC    STN Files:   CA, CAPLUS, USPATFULL
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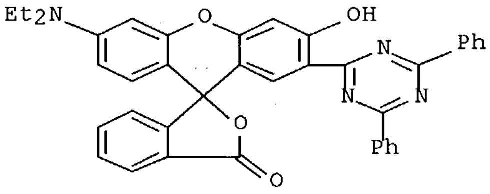

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               1 REFERENCES IN FILE CA (1907 TO DATE)
               1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE    1:  121:37804

L9   ANSWER 163 OF 267  REGISTRY  COPYRIGHT 2004 ACS on STN
RN   149976-04-5  REGISTRY
CN   Phenol, 5-[2-(acetyloxy)-3-butoxypropoxy]-2-[4,6-bis(2,4-
     dimethylphenyl)-1,3,5-triazin-2-yl]- (9CI)  (CA INDEX NAME)
FS   3D CONCORD
MF   C34 H39 N3 O5
SR   CA
LC   STN Files:   CA, CAPLUS
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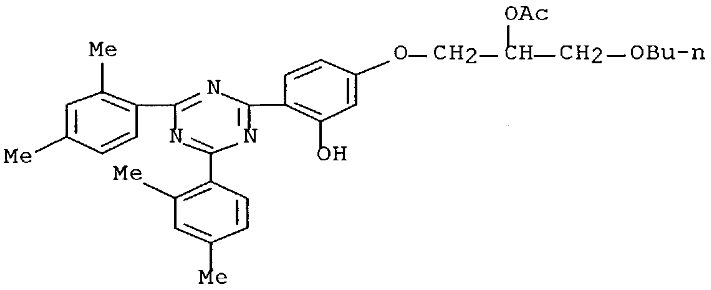

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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

               1 REFERENCES IN FILE CA (1907 TO DATE)
               1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE    1:  119:213920

L9   ANSWER 165 OF 267  REGISTRY  COPYRIGHT 2004 ACS on STN
RN   148236-55-9  REGISTRY
CN   Phenol, 2,2',2''-(1,3,5-triazine-2,4,6-triyl)tris[5-(3-butoxy-2-
     hydroxypropoxy)- (9CI)  (CA INDEX NAME)
OTHER NAMES:
CN   2,4,6-Tris[2-hydroxy-4-(3-butoxy-2-hydroxypropoxy)phenyl]-s-triazine
FS   3D CONCORD
MF   C42 H57 N3 O12
CI   COM
SR   CA
LC   STN Files:   CA, CAPLUS, USPATFULL
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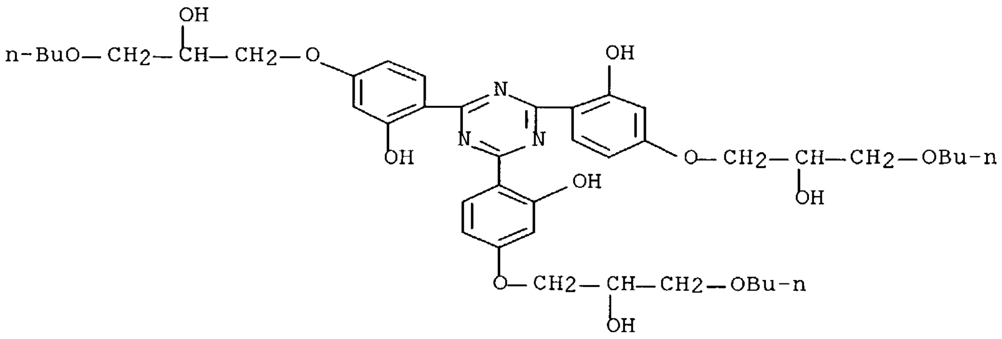

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                10 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE   1:  139:134313

REFERENCE   2:  139:118129

REFERENCE   3:  137:338627

REFERENCE   4:  136:332867

REFERENCE   5:  135:12190

REFERENCE   6:  134:34994

REFERENCE   7:  132:223867

REFERENCE   8:  129:47336

REFERENCE   9:  123:212999

REFERENCE  10:  119:59600

L9   ANSWER 166 OF 267  REGISTRY  COPYRIGHT 2004 ACS on STN
RN   147770-11-4  REGISTRY
CN   Phenol, 2-[4,6-bis(2,4-dimethylphenyl)-1,3,5-triazin-2-yl]-5-[3-
     butoxy-2-[(butyldimethylsilyl)oxy]propoxy]- (9CI)  (CA INDEX NAME)
FS   3D CONCORD
MF   C38 H51 N3 O4 Si
SR   CA
LC   STN Files:   CA, CAPLUS
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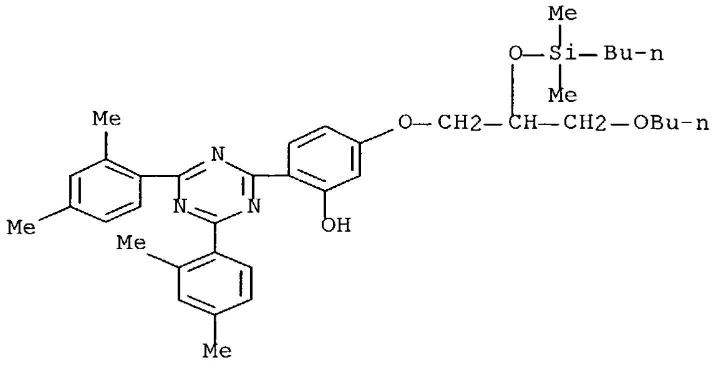

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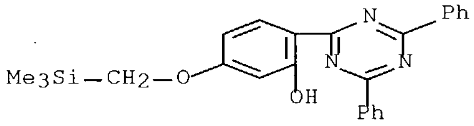
               1 REFERENCES IN FILE CA (1907 TO DATE)
               1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE    1:  119:95817

L9    ANSWER 167 OF 267  REGISTRY  COPYRIGHT 2004 ACS on STN
RN    145024-45-9  REGISTRY
CN    Phenol, 2-(4,6-diphenyl-1,3,5-triazin-2-yl)-5-
      [(trimethylsilyl)methoxy]- (9CI)  (CA INDEX NAME)
FS    3D CONCORD
MF    C25 H25 N3 O2 Si
SR    CA
LC    STN Files:   CA, CAPLUS, USPATFULL
```



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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

               2 REFERENCES IN FILE CA (1907 TO DATE)
               2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE    1:  119:95817

REFERENCE    2:  118:39152

L9    ANSWER 179 OF 267  REGISTRY  COPYRIGHT 2004 ACS on STN
RN    137658-80-1  REGISTRY
CN    1,2-Propanediol, 3-[4-[4,6-bis(2,4-dimethylphenyl)-1,3,5-triazin-2-
      yl]-3-hydroxyphenoxy]- (9CI)  (CA INDEX NAME)
FS    3D CONCORD
MF    C28 H29 N3 O4
SR    CA
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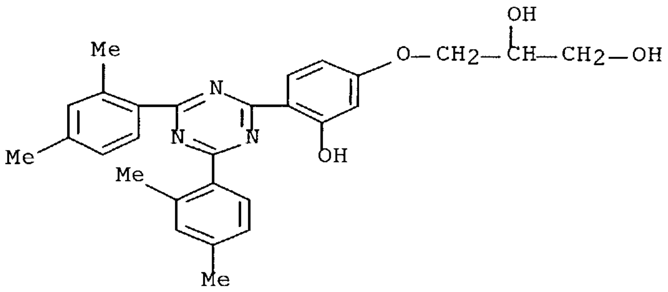
LC STN Files: CA, CAPLUS, TOXCENTER, USPAT2, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

11 REFERENCES IN FILE CA (1907 TO DATE)
9 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
11 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 137:386073

REFERENCE 2: 137:296545

REFERENCE 3: 135:47639

REFERENCE 4: 135:47636

REFERENCE 5: 125:198652

REFERENCE 6: 123:115662

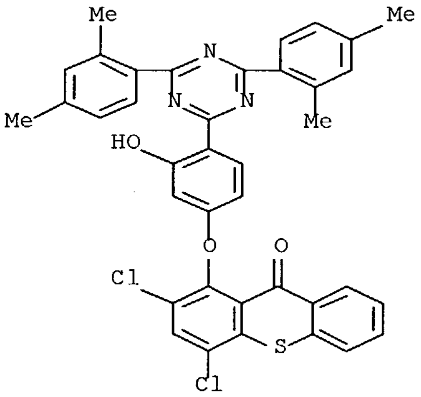
REFERENCE 7: 119:95817

REFERENCE 8: 118:39152

REFERENCE 9: 116:216406

REFERENCE 10: 116:85879

L9 ANSWER 181 OF 267 REGISTRY COPYRIGHT 2004 ACS on STN
RN **135805-12-8** REGISTRY
CN 9H-Thioxanthen-9-one, 1-[4-[4,6-bis(2,4-dimethylphenyl)-1,3,5-triazin-2-yl]-3-hydroxyphenoxy]-2,4-dichloro- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C38 H27 Cl2 N3 O3 S
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

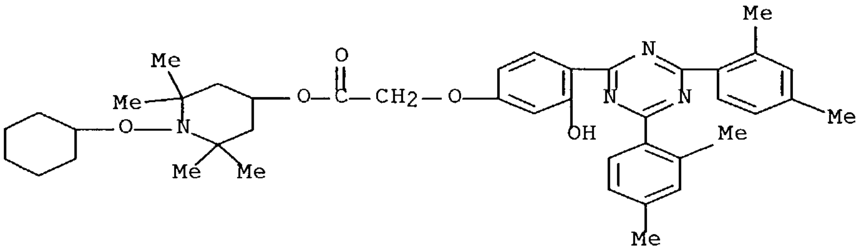


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 115:114357

L9 ANSWER 182 OF 267 REGISTRY COPYRIGHT 2004 ACS on STN
RN **131806-95-6** REGISTRY
CN Acetic acid, [4-[4,6-bis(2,4-dimethylphenyl)-1,3,5-triazin-2-yl]-3-hydroxyphenoxy]-, 1-(cyclohexyloxy)-2,2,6,6-tetramethyl-4-piperidinyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C42 H52 N4 O5
SR CA
LC STN Files: CA, CAPLUS, USPATFULL



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 114:63535

L9 ANSWER 184 OF 267 REGISTRY COPYRIGHT 2004 ACS on STN
RN **128644-10-0** REGISTRY
CN Phenol, 5-[3-(dimethylamino)propoxy]-2-(4,6-diphenyl-1,3,5-triazin-2-

```
     yl)- (9CI)  (CA INDEX NAME)
FS   3D CONCORD
MF   C26 H26 N4 O2
SR   CA
LC   STN Files:   CA, CAPLUS, USPATFULL
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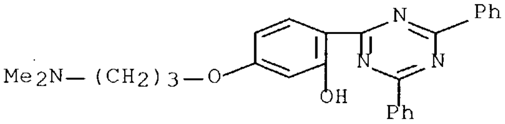

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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

               1 REFERENCES IN FILE CA (1907 TO DATE)
               1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE    1:  113:97630

L9   ANSWER 192 OF 267  REGISTRY  COPYRIGHT 2004 ACS on STN
RN   115970-05-3  REGISTRY
CN   Phenol, 4,4',4''-(1,3,5-triazine-2,4,6-triyl)tris[2-
     [(diethylamino)methyl]- (9CI)  (CA INDEX NAME)
FS   3D CONCORD
MF   C36 H48 N6 O3
SR   CA
LC   STN Files:   CA, CAPLUS
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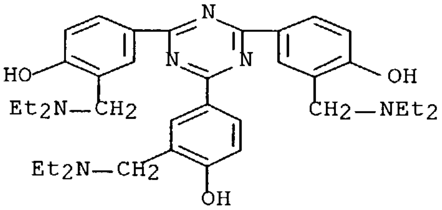

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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

               1 REFERENCES IN FILE CA (1907 TO DATE)
               1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE    1:  109:93068

L9   ANSWER 193 OF 267  REGISTRY  COPYRIGHT 2004 ACS on STN
RN   106556-36-9  REGISTRY
CN   Phenol, 2-(4,6-diphenyl-1,3,5-triazin-2-yl)-5-methoxy- (9CI)  (CA
     INDEX NAME)
OTHER NAMES:
CN   2-(2-Hydroxy-4-methoxyphenyl)-4,6-diphenyl-1,3,5-triazine
CN   2-(4,6-Diphenyl-1,3,5-triazin-2-yl)-5-(methyloxy)phenol
FS   3D CONCORD
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```
MF    C22 H17 N3 O2
SR    CA
LC    STN Files:   CA, CAPLUS, CASREACT, CHEMLIST, TOXCENTER, USPATFULL
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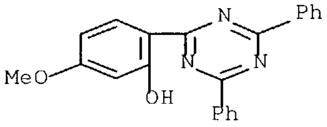

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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

              31 REFERENCES IN FILE CA (1907 TO DATE)
              31 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE   1:  139:134313

REFERENCE   2:  139:118129

REFERENCE   3:  137:338627

REFERENCE   4:  137:295920

REFERENCE   5:  135:99701

REFERENCE   6:  134:315906

REFERENCE   7:  134:164181

REFERENCE   8:  132:194055

REFERENCE   9:  132:28497

REFERENCE  10:  129:244802

L9    ANSWER 194 OF 267  REGISTRY  COPYRIGHT 2004 ACS on STN
RN    104209-64-5  REGISTRY
CN    1,3-Benzenediol, 4,4'-(6-phenyl-1,3,5-triazine-2,4-diyl)bis[5-methyl-
        (9CI)  (CA INDEX NAME)
FS    3D CONCORD
MF    C23 H19 N3 O4
SR    CA
LC    STN Files:   CA, CAPLUS
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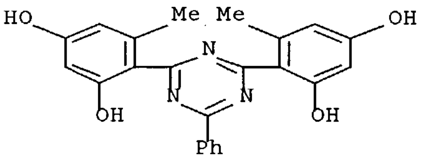

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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**
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                1 REFERENCES IN FILE CA (1907 TO DATE)
                1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE    1:  105:124162

L9   ANSWER 198 OF 267  REGISTRY  COPYRIGHT 2004 ACS on STN
RN   38375-15-4  REGISTRY
CN   1,3-Benzenediol, 4-[4,6-bis(4-methylphenyl)-1,3,5-triazin-2-yl]-
     (9CI)  (CA INDEX NAME)
OTHER NAMES:
CN   2-(2',4'-Dihydroxyphenyl)-4,6-di-p-tolyl-s-triazine
FS   3D CONCORD
MF   C23 H19 N3 O2
LC   STN Files:   BEILSTEIN*, CA, CAPLUS, USPATFULL
         (*File contains numerically searchable property data)
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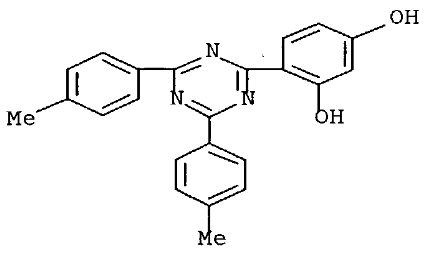

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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

                5 REFERENCES IN FILE CA (1907 TO DATE)
                5 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE    1:  132:223350

REFERENCE    2:  116:84957

REFERENCE    3:  114:122423

REFERENCE    4:  106:6383

REFERENCE    5:  77:101540

L9   ANSWER 199 OF 267  REGISTRY  COPYRIGHT 2004 ACS on STN
RN   38369-95-8  REGISTRY
CN   1,3-Benzenediol, 4-(4,6-diphenyl-1,3,5-triazin-2-yl)- (9CI)  (CA
     INDEX NAME)
OTHER CA INDEX NAMES:
CN   Resorcinol, 4-(4,6-diphenyl-s-triazin-2-yl)- (7CI)
FS   3D CONCORD
MF   C21 H15 N3 O2
CI   COM
LC   STN Files:   BEILSTEIN*, CA, CAOLD, CAPLUS, CASREACT, CHEMLIST,
       USPAT2, USPATFULL
         (*File contains numerically searchable property data)
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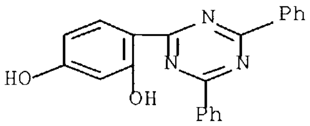

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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

              31 REFERENCES IN FILE CA (1907 TO DATE)
               3 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
              31 REFERENCES IN FILE CAPLUS (1907 TO DATE)
               1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE   1:  139:308594

REFERENCE   2:  138:91014

REFERENCE   3:  138:73277

REFERENCE   4:  137:354718

REFERENCE   5:  137:312205

REFERENCE   6:  135:211771

REFERENCE   7:  135:166845

REFERENCE   8:  133:310514

REFERENCE   9:  133:253642

REFERENCE  10:  133:209029

L9   ANSWER 200 OF 267  REGISTRY  COPYRIGHT 2004 ACS on STN
RN   25023-99-8  REGISTRY
CN   1,3-Benzenediol, 4,4'-[6-(2,4-dimethylphenyl)-1,3,5-triazine-2,4-
     diyl]bis- (9CI)  (CA INDEX NAME)
FS   3D CONCORD
MF   C23 H19 N3 O4
LC   STN Files:   BEILSTEIN*, CA, CAPLUS, USPAT2, USPATFULL
         (*File contains numerically searchable property data)
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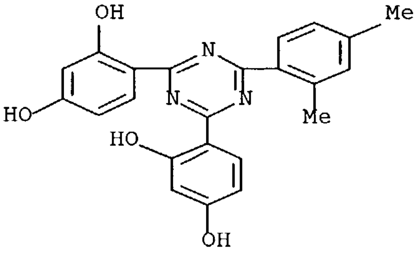

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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

               5 REFERENCES IN FILE CA (1907 TO DATE)
               5 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE   1:  138:73277

REFERENCE   2:  132:208726

REFERENCE   3:  132:195212

REFERENCE   4:  111:153846

REFERENCE   5:  77:101540

L9   ANSWER 201 OF 267  REGISTRY  COPYRIGHT 2004 ACS on STN
RN   23449-05-0  REGISTRY
CN   Phenol, 2-(1,2-dihydro-4,6-diphenyl-1,3,5-triazin-2-yl)- (9CI)  (CA
     INDEX NAME)
OTHER CA INDEX NAMES:
CN   Phenol, o-(1,2-dihydro-4,6-diphenyl-s-triazin-2-yl)- (8CI)
FS   3D CONCORD
MF   C21 H17 N3 O
CI   COM
LC   STN Files:   BEILSTEIN*, CA, CAPLUS, CASREACT, CHEMCATS, USPATFULL
         (*File contains numerically searchable property data)
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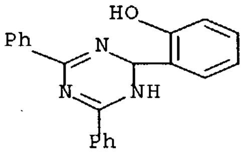

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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

               2 REFERENCES IN FILE CA (1907 TO DATE)
               2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE   1:  122:314580

REFERENCE   2:  71:30455

L9   ANSWER 202 OF 267  REGISTRY  COPYRIGHT 2004 ACS on STN
RN   20572-37-6  REGISTRY
CN   2-Naphthalenol, 1,1'-[6-(2-pyrenyl)-1,3,5-triazine-2,4-diyl]bis-
     (9CI)  (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN   2-Naphthol, 1,1'-[6-(2-pyrenyl)-s-triazine-2,4-diyl]di- (8CI)
OTHER NAMES:
CN   C.I. 50600
CN   C.I. Pigment Yellow 148
CN   Filamid Yellow 4G
CN   Pigment Yellow 148
```

```
FS    3D CONCORD
DR    61815-07-4
MF    C39 H23 N3 O2
LC    STN Files:   CA, CAPLUS, CHEMLIST, IFICDB, IFIPAT, IFIUDB
      Other Sources:   EINECS**
          (**Enter CHEMLIST File for up-to-date regulatory information)
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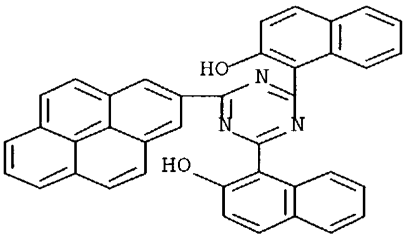

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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

                5 REFERENCES IN FILE CA (1907 TO DATE)
                5 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE   1:  134:318622

REFERENCE   2:  133:357343

REFERENCE   3:  116:262585

REFERENCE   4:  107:98067

REFERENCE   5:  69:37113

L9    ANSWER 203 OF 267  REGISTRY  COPYRIGHT 2004 ACS on STN
RN    20075-81-4  REGISTRY
CN    2-Naphthol, 1,1'-[6-(4-methoxy-1-naphthyl)-s-triazine-2,4-diyl]di-
      (8CI)  (CA INDEX NAME)
FS    3D CONCORD
MF    C34 H23 N3 O3
LC    STN Files:   BEILSTEIN*, CA, CAPLUS, IFICDB, IFIPAT, IFIUDB
          (*File contains numerically searchable property data)
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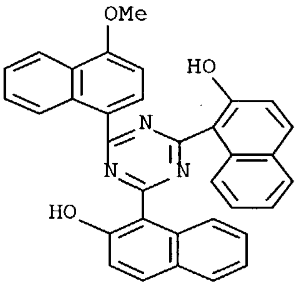

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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

               1 REFERENCES IN FILE CA (1907 TO DATE)
               1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE   1:  69:37113

L9   ANSWER 205 OF 267  REGISTRY  COPYRIGHT 2004 ACS on STN
RN   19869-69-3  REGISTRY
CN   2-Naphthol, 1,1'-[6-(4-methyl-1-naphthyl)-s-triazine-2,4-diyl]di-
     (8CI)  (CA INDEX NAME)
FS   3D CONCORD
MF   C34 H23 N3 O2
LC   STN Files:   CA, CAPLUS, IFICDB, IFIPAT, IFIUDB
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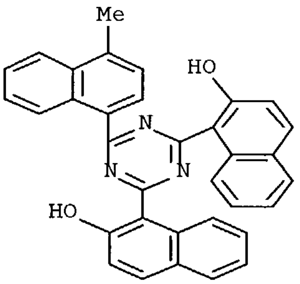

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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

               1 REFERENCES IN FILE CA (1907 TO DATE)
               1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE   1:  69:37113

L9   ANSWER 206 OF 267  REGISTRY  COPYRIGHT 2004 ACS on STN
RN   19746-69-1  REGISTRY
CN   2,7-Naphthalenediol, 1,1'-(6-phenyl-s-triazine-2,4-diyl)di- (8CI)
     (CA INDEX NAME)
FS   3D CONCORD
MF   C29 H19 N3 O4
LC   STN Files:   CA, CAPLUS, IFICDB, IFIPAT, IFIUDB
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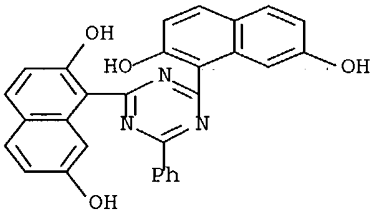

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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

                1 REFERENCES IN FILE CA (1907 TO DATE)
                1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE   1:  69:37113

L9   ANSWER 207 OF 267  REGISTRY  COPYRIGHT 2004 ACS on STN
RN   19662-11-4  REGISTRY
CN   2-Naphthol, 1,1'-(6-phenyl-s-triazine-2,4-diyl)di- (8CI)  (CA INDEX
     NAME)
FS   3D CONCORD
MF   C29 H19 N3 O2
LC   STN Files:   CA, CAPLUS, IFICDB, IFIPAT, IFIUDB
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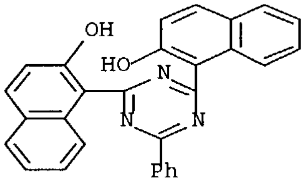

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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

                1 REFERENCES IN FILE CA (1907 TO DATE)
                1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE   1:  69:37113

L9   ANSWER 208 OF 267  REGISTRY  COPYRIGHT 2004 ACS on STN
RN   18503-28-1  REGISTRY
CN   1-Propanesulfonic acid, 3-[4-(4,6-di-2,4-xylyl-s-triazin-2-yl)-3-
     hydroxyphenoxy]- (8CI)  (CA INDEX NAME)
FS   3D CONCORD
MF   C28 H29 N3 O5 S
CI   COM
LC   STN Files:   BEILSTEIN*, CA, CAPLUS, IFICDB, IFIPAT, IFIUDB
          (*File contains numerically searchable property data)
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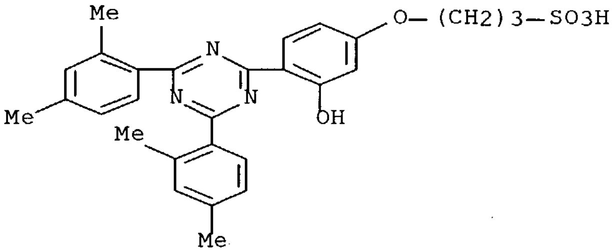

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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

               1 REFERENCES IN FILE CA (1907 TO DATE)
               1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE   1:  69:10484

L9   ANSWER 209 OF 267  REGISTRY  COPYRIGHT 2004 ACS on STN
RN   18499-17-7  REGISTRY
CN   1-Propanesulfonic acid, 3,3'-[(6-phenyl-s-triazine-2,4-diyl)bis[(3-
     hydroxy-p-phenylene)oxy]]di- (8CI)  (CA INDEX NAME)
FS   3D CONCORD
MF   C27 H27 N3 O10 S2
CI   COM
LC   STN Files:   CA, CAPLUS, IFICDB, IFIPAT, IFIUDB
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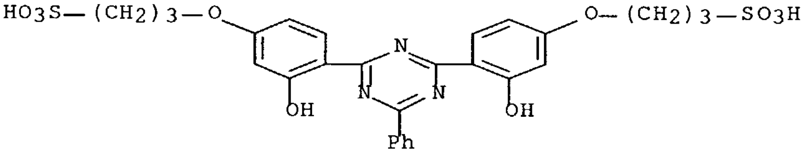

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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

               1 REFERENCES IN FILE CA (1907 TO DATE)
               1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE   1:  69:10484

L9   ANSWER 210 OF 267  REGISTRY  COPYRIGHT 2004 ACS on STN
RN   17419-37-3  REGISTRY
CN   2-Naphthol, 1,1',1''-s-triazine-2,4,6-triyltri- (7CI, 8CI)  (CA
     INDEX NAME)
FS   3D CONCORD
MF   C33 H21 N3 O3
LC   STN Files:   CA, CAOLD, CAPLUS, IFICDB, IFIPAT, IFIUDB
```

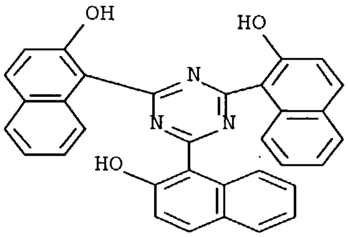

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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

               2 REFERENCES IN FILE CA (1907 TO DATE)
               2 REFERENCES IN FILE CAPLUS (1907 TO DATE)
               1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE   1:  69:37113

REFERENCE   2:  59:48431

L9   ANSWER 211 OF 267  REGISTRY  COPYRIGHT 2004 ACS on STN
RN   7753-13-1  REGISTRY
CN   Phenol, 4,4',4''-(1,3,5-triazine-2,4,6-triyl)tris- (9CI)  (CA INDEX
     NAME)
OTHER CA INDEX NAMES:
CN   Phenol, 4,4',4''-s-triazine-2,4,6-triyltri- (7CI, 8CI)
OTHER NAMES:
CN   2,4,6-Tris(4-hydroxyphenyl)-1,3,5-triazine
FS   3D CONCORD
MF   C21 H15 N3 O3
CI   COM
LC   STN Files:   BEILSTEIN*, CA, CAOLD, CAPLUS, USPATFULL
         (*File contains numerically searchable property data)
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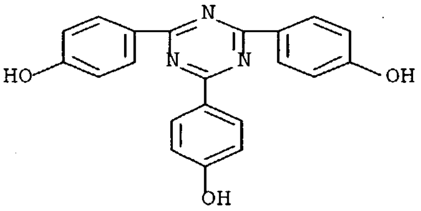

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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

               7 REFERENCES IN FILE CA (1907 TO DATE)
               7 REFERENCES IN FILE CAPLUS (1907 TO DATE)
               1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE   1:  140:31194

REFERENCE   2:  136:70727

REFERENCE   3:  129:41151

REFERENCE   4:  109:93068

REFERENCE   5:  91:176004

REFERENCE   6:  82:16507

REFERENCE   7:  65:99345

L9   ANSWER 212 OF 267  REGISTRY  COPYRIGHT 2004 ACS on STN
RN   4804-95-9  REGISTRY
CN   Phenol, 2,2'-[6-(p-tert-butylphenyl)-s-triazine-2,4-diyl]bis[5-
     propoxy- (7CI, 8CI)  (CA INDEX NAME)
FS   3D CONCORD
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```
MF    C31 H35 N3 O4
LC    STN Files:   BEILSTEIN*, CA, CAOLD, CAPLUS, TOXCENTER
          (*File contains numerically searchable property data)
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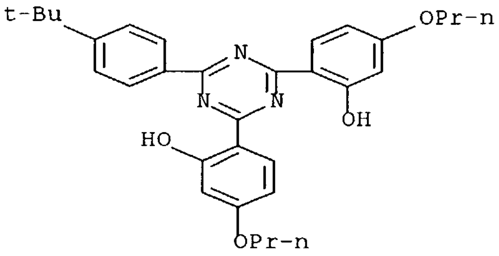

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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

               2 REFERENCES IN FILE CA (1907 TO DATE)
               2 REFERENCES IN FILE CAPLUS (1907 TO DATE)
               1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE    1:  72:90534

REFERENCE    2:  62:91037

L9    ANSWER 213 OF 267  REGISTRY  COPYRIGHT 2004 ACS on STN
RN    4635-01-2  REGISTRY
CN    Phenol, 2,2'-(6-phenyl-s-triazine-2,4-diyl)bis[5-propoxy- (7CI, 8CI)
      (CA INDEX NAME)
FS    3D CONCORD
MF    C27 H27 N3 O4
LC    STN Files:   BEILSTEIN*, CA, CAOLD, CAPLUS, TOXCENTER
          (*File contains numerically searchable property data)
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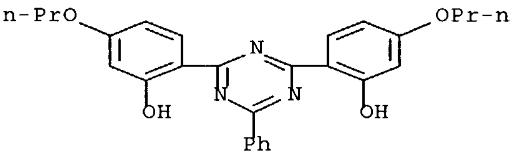

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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

               2 REFERENCES IN FILE CA (1907 TO DATE)
               2 REFERENCES IN FILE CAPLUS (1907 TO DATE)
               1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE    1:  72:90534

REFERENCE    2:  62:91037

L9    ANSWER 214 OF 267  REGISTRY  COPYRIGHT 2004 ACS on STN
```

```
RN    4604-25-5  REGISTRY
CN    1,3-Benzenediol, 4,4'-[6-(4-methylphenyl)-1,3,5-triazine-2,4-
      diyl]bis- (9CI)  (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN    Resorcinol, 4,4'-(6-p-tolyl-s-triazine-2,4-diyl)di- (7CI, 8CI)
FS    3D CONCORD
MF    C22 H17 N3 O4
LC    STN Files:   BEILSTEIN*, CA, CAOLD, CAPLUS, TOXCENTER
          (*File contains numerically searchable property data)
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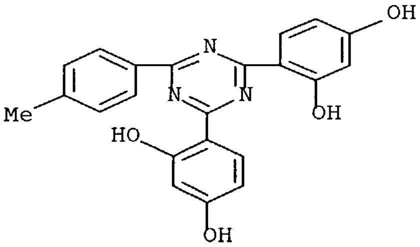

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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

               3 REFERENCES IN FILE CA (1907 TO DATE)
               3 REFERENCES IN FILE CAPLUS (1907 TO DATE)
               1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE   1:  105:124162

REFERENCE   2:  72:90534

REFERENCE   3:  62:91037

L9    ANSWER 215 OF 267  REGISTRY  COPYRIGHT 2004 ACS on STN
RN    4575-98-8  REGISTRY
CN    Phenol, 2,2'-(6-phenyl-1,3,5-triazine-2,4-diyl)bis[5-(octyloxy)-
      (9CI)  (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN    Phenol, 2,2'-(6-phenyl-s-triazine-2,4-diyl)bis[5-(octyloxy)- (7CI,
      8CI)
FS    3D CONCORD
MF    C37 H47 N3 O4
LC    STN Files:   BEILSTEIN*, CA, CAOLD, CAPLUS, TOXCENTER, USPATFULL
          (*File contains numerically searchable property data)
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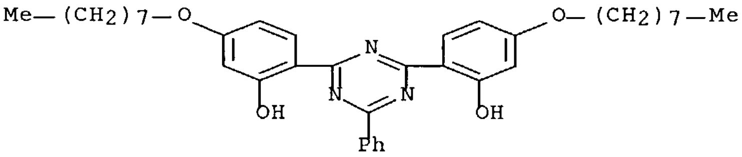

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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

               3 REFERENCES IN FILE CA (1907 TO DATE)
               3 REFERENCES IN FILE CAPLUS (1907 TO DATE)
               1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE   1:  119:82785

REFERENCE   2:  72:90534

REFERENCE   3:  62:91037

L9   ANSWER 217 OF 267  REGISTRY  COPYRIGHT 2004 ACS on STN
RN   4551-31-9  REGISTRY
CN   Phenol, 2-[4,6-bis(2,4-dimethylphenyl)-1,3,5-triazin-2-yl]-5-(2-
     propenyloxy)- (9CI)  (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN   Phenol, 5-(allyloxy)-2-(4,6-di-2,4-xylyl-s-triazin-2-yl)- (7CI, 8CI)
FS   3D CONCORD
MF   C28 H27 N3 O2
LC   STN Files:   BEILSTEIN*, CA, CAOLD, CAPLUS, IFICDB, IFIPAT, IFIUDB,
       USPATFULL
         (*File contains numerically searchable property data)
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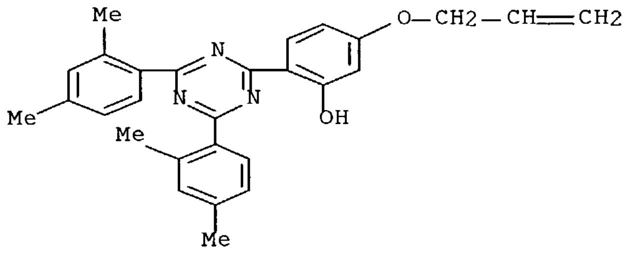

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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

               5 REFERENCES IN FILE CA (1907 TO DATE)
               1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
               5 REFERENCES IN FILE CAPLUS (1907 TO DATE)
               1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE   1:  126:132209

REFERENCE   2:  126:39782

REFERENCE   3:  73:131684

REFERENCE   4:  72:121590

REFERENCE   5:  62:43974

L9   ANSWER 218 OF 267  REGISTRY  COPYRIGHT 2004 ACS on STN
RN   4508-22-9  REGISTRY
CN   Phenol, 2,2'-(6-phenyl-s-triazine-2,4-diyl)bis[5-ethoxy- (7CI, 8CI)
     (CA INDEX NAME)
```

```
FS   3D CONCORD
MF   C25 H23 N3 O4
LC   STN Files:   BEILSTEIN*, CA, CAOLD, CAPLUS, TOXCENTER
         (*File contains numerically searchable property data)
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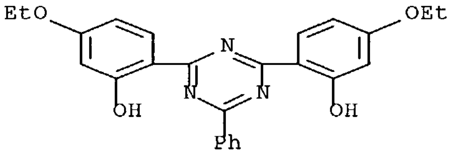

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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

               2 REFERENCES IN FILE CA (1907 TO DATE)
               2 REFERENCES IN FILE CAPLUS (1907 TO DATE)
               1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE   1:  72:90534

REFERENCE   2:  62:91037

L9   ANSWER 219 OF 267  REGISTRY  COPYRIGHT 2004 ACS on STN
RN   4507-97-5  REGISTRY
CN   Phenol, 2,2',2''-(1,3,5-triazine-2,4,6-triyl)tris- (9CI)  (CA INDEX
     NAME)
OTHER CA INDEX NAMES:
CN   Phenol, 2,2',2''-s-triazine-2,4,6-triyltri- (6CI, 7CI, 8CI)
OTHER NAMES:
CN   2,4,6-Tris(2-hydroxyphenyl)-1,3,5-triazine
CN   2,4,6-Tris(2-hydroxyphenyl)-s-triazine
CN   Tris(2-hydroxyphenyl)-1,3,5-triazine
FS   3D CONCORD
MF   C21 H15 N3 O3
CI   COM
LC   STN Files:   BEILSTEIN*, CA, CAOLD, CAPLUS, CASREACT, GMELIN*,
       HODOC*, TOXCENTER, USPATFULL
         (*File contains numerically searchable property data)
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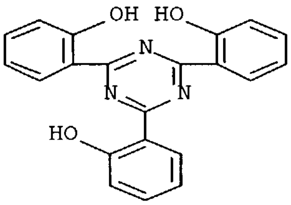

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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

              19 REFERENCES IN FILE CA (1907 TO DATE)
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                1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
               19 REFERENCES IN FILE CAPLUS (1907 TO DATE)
                4 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE   1:  137:255642

REFERENCE   2:  137:83368

REFERENCE   3:  126:216456

REFERENCE   4:  125:88154

REFERENCE   5:  123:33100

REFERENCE   6:  120:298646

REFERENCE   7:  106:119825

REFERENCE   8:  92:53404

REFERENCE   9:  87:185422

REFERENCE  10:  82:16507

L9   ANSWER 220 OF 267  REGISTRY  COPYRIGHT 2004 ACS on STN
RN   4018-89-7  REGISTRY
CN   Phenol, 2,2'-(6-phenyl-s-triazine-2,4-diyl)bis[5-[(p-
     chlorobenzyl)oxy]- (7CI, 8CI)  (CA INDEX NAME)
FS   3D CONCORD
MF   C35 H25 Cl2 N3 O4
LC   STN Files:   BEILSTEIN*, CA, CAOLD, CAPLUS
         (*File contains numerically searchable property data)
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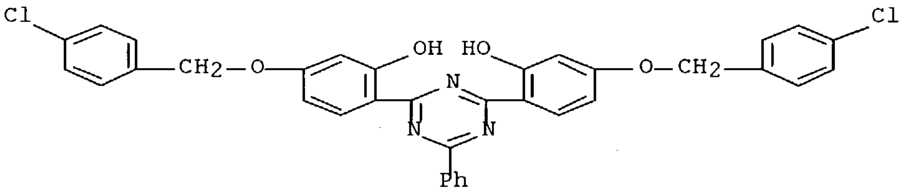

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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

                2 REFERENCES IN FILE CA (1907 TO DATE)
                2 REFERENCES IN FILE CAPLUS (1907 TO DATE)
                1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE   1:  72:121590

REFERENCE   2:  62:43974

L9   ANSWER 221 OF 267  REGISTRY  COPYRIGHT 2004 ACS on STN
RN   4010-13-3  REGISTRY
CN   Butyric acid, 4,4'-[(6-phenyl-s-triazine-2,4-diyl)bis[(3-hydroxy-p-
     phenylene)oxy]]di-, diethyl ester (7CI, 8CI)  (CA INDEX NAME)
FS   3D CONCORD
MF   C33 H35 N3 O8
LC   STN Files:   BEILSTEIN*, CA, CAOLD, CAPLUS
         (*File contains numerically searchable property data)
```

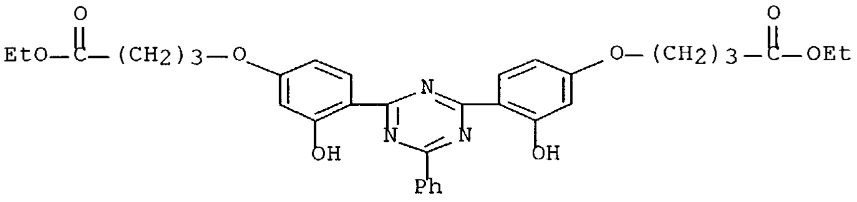

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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

               2 REFERENCES IN FILE CA (1907 TO DATE)
               2 REFERENCES IN FILE CAPLUS (1907 TO DATE)
               1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE   1:  72:121590

REFERENCE   2:  62:43974

L9   ANSWER 222 OF 267  REGISTRY  COPYRIGHT 2004 ACS on STN
RN   4000-90-2  REGISTRY
CN   1,3-Benzenediol, 4,4'-(6-[1,1'-biphenyl]-4-yl-1,3,5-triazine-2,4-
     diyl)bis- (9CI)  (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN   Resorcinol, 4,4'-[6-(4-biphenylyl)-s-triazine-2,4-diyl]di- (7CI,
     8CI)
FS   3D CONCORD
MF   C27 H19 N3 O4
LC   STN Files:   BEILSTEIN*, CA, CAOLD, CAPLUS, TOXCENTER, USPAT2,
       USPATFULL
         (*File contains numerically searchable property data)
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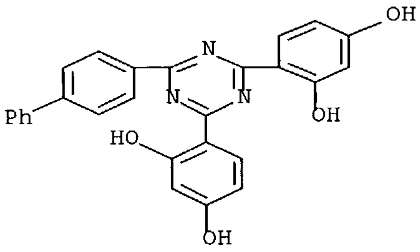

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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

               6 REFERENCES IN FILE CA (1907 TO DATE)
               6 REFERENCES IN FILE CAPLUS (1907 TO DATE)
               1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE    1:  140:136369

REFERENCE    2:  135:77694

REFERENCE    3:  125:301025

REFERENCE    4:  105:124162

REFERENCE    5:  72:90534

REFERENCE    6:  62:91037

L9   ANSWER 226 OF 267  REGISTRY  COPYRIGHT 2004 ACS on STN
RN   3949-27-7  REGISTRY
CN   Resorcinol, 4-[4-[4-(allyloxy)-2-hydroxyphenyl]-6-(p-tert-
     butylphenyl)-s-triazin-2-yl]- (7CI, 8CI)  (CA INDEX NAME)
FS   3D CONCORD
MF   C28 H27 N3 O4
LC   STN Files:   BEILSTEIN*, CA, CAOLD, CAPLUS
         (*File contains numerically searchable property data)
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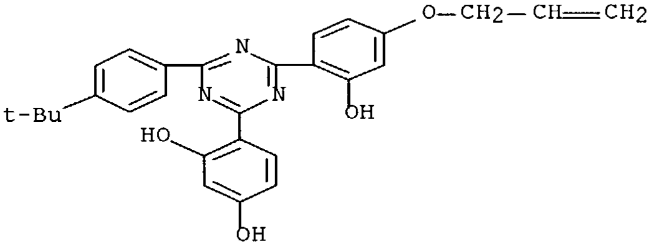

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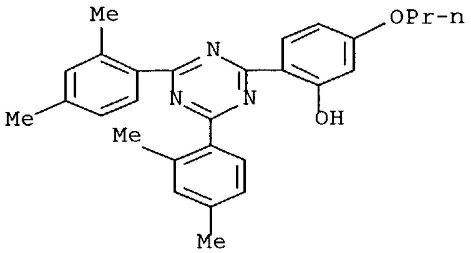
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

               2 REFERENCES IN FILE CA (1907 TO DATE)
               2 REFERENCES IN FILE CAPLUS (1907 TO DATE)
               1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE    1:  72:121590

REFERENCE    2:  62:43974

L9   ANSWER 227 OF 267  REGISTRY  COPYRIGHT 2004 ACS on STN
RN   3882-65-3  REGISTRY
CN   Phenol, 2-(4,6-di-2,4-xylyl-s-triazin-2-yl)-5-propoxy- (7CI, 8CI)
     (CA INDEX NAME)
FS   3D CONCORD
MF   C28 H29 N3 O2
LC   STN Files:   BEILSTEIN*, CA, CAOLD, CAPLUS
         (*File contains numerically searchable property data)
```



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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

               2 REFERENCES IN FILE CA (1907 TO DATE)
               2 REFERENCES IN FILE CAPLUS (1907 TO DATE)
               1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE   1:  72:79103

REFERENCE   2:  62:51742

L9   ANSWER 228 OF 267  REGISTRY  COPYRIGHT 2004 ACS on STN
RN   3866-22-6  REGISTRY
CN   Resorcinol, 4-[4-[4-(benzyloxy)-2-hydroxyphenyl]-6-phenyl-s-triazin-
     2-yl]- (7CI, 8CI)  (CA INDEX NAME)
FS   3D CONCORD
MF   C28 H21 N3 O4
LC   STN Files:   BEILSTEIN*, CA, CAOLD, CAPLUS
         (*File contains numerically searchable property data)
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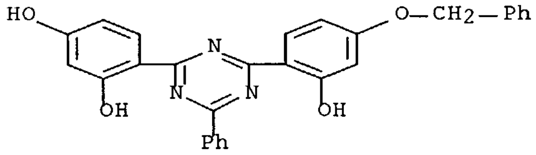

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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

               2 REFERENCES IN FILE CA (1907 TO DATE)
               2 REFERENCES IN FILE CAPLUS (1907 TO DATE)
               1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE   1:  72:121590

REFERENCE   2:  62:43974

L9   ANSWER 229 OF 267  REGISTRY  COPYRIGHT 2004 ACS on STN
RN   3202-86-6  REGISTRY
CN   Phenol, 2-(4,6-diphenyl-1,3,5-triazin-2-yl)- (9CI)  (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN   Phenol, o-(4,6-diphenyl-s-triazin-2-yl)- (7CI, 8CI)
OTHER NAMES:
```

```
CN   2,4-Diphenyl-6-(2-hydroxyphenyl)-s-triazine
CN   2-(2-Hydroxyphenyl)-4,6-diphenyl-1,3,5-triazine
FS   3D CONCORD
MF   C21 H15 N3 O
LC   STN Files:   BEILSTEIN*, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS,
       USPATFULL
         (*File contains numerically searchable property data)
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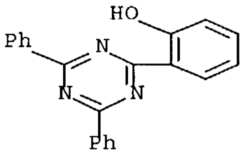

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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

              17 REFERENCES IN FILE CA (1907 TO DATE)
              17 REFERENCES IN FILE CAPLUS (1907 TO DATE)
               3 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE   1:  133:315474

REFERENCE   2:  131:244350

REFERENCE   3:  125:88154

REFERENCE   4:  122:314583

REFERENCE   5:  122:314580

REFERENCE   6:  122:242216

REFERENCE   7:  96:53104

REFERENCE   8:  95:116390

REFERENCE   9:  94:48228

REFERENCE  10:  93:168813

L9   ANSWER 230 OF 267  REGISTRY  COPYRIGHT 2004 ACS on STN
RN   2725-22-6  REGISTRY
CN   Phenol, 2-[4,6-bis(2,4-dimethylphenyl)-1,3,5-triazin-2-yl]-5-
     (octyloxy)- (9CI)  (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN   Phenol, 2-(4,6-di-2,4-xylyl-s-triazin-2-yl)-5-(octyloxy)- (7CI, 8CI)
OTHER NAMES:
CN   2,4-Bis(2,4-dimethylphenyl)-6-(2-hydroxy-4-octyloxyphenyl)-1,3,5-
     triazine
CN   2,4-Bis(2,4-dimethylphenyl)-6-(2-hydroxy-4-octyloxyphenyl)-s-
     triazine
CN   2-(4,6-Bis(2,4-dimethylphenyl)-1,3,5-triazine-2-yl)-5-octyloxyphenol
CN   2-[4,6-Bis(2,4-dimethylphenyl)-1,3,5-triazin-2-yl]-5-
     (octyloxy)phenol
```

```
CN   Cyasorb 1164
CN   Cyasorb UV 1164
CN   Cyasorb UV 1164L
CN   Tinuvin 1545
CN   UV 1164
FS   3D CONCORD
MF   C33 H39 N3 O2
CI   COM
LC   STN Files:   BEILSTEIN*, CA, CAOLD, CAPLUS, CEN, CHEMLIST, IFICDB,
       IFIPAT, IFIUDB, SPECINFO, TOXCENTER, USPAT2, USPATFULL
         (*File contains numerically searchable property data)
     Other Sources:   NDSL**, TSCA**
         (**Enter CHEMLIST File for up-to-date regulatory information)
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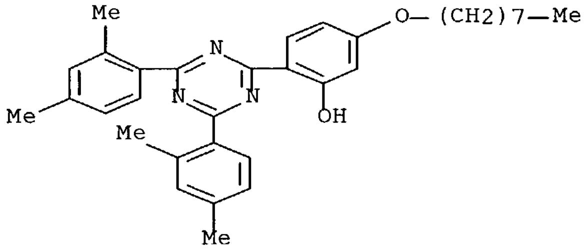

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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

              105 REFERENCES IN FILE CA (1907 TO DATE)
                1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
              105 REFERENCES IN FILE CAPLUS (1907 TO DATE)
                1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE   1:  140:60548

REFERENCE   2:  139:366046

REFERENCE   3:  139:277485

REFERENCE   4:  139:268007

REFERENCE   5:  139:181164

REFERENCE   6:  139:134313

REFERENCE   7:  139:118129

REFERENCE   8:  139:86490

REFERENCE   9:  139:60361

REFERENCE  10:  139:60360

L9   ANSWER 231 OF 267  REGISTRY  COPYRIGHT 2004 ACS on STN
RN   2125-31-7  REGISTRY
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```
CN    Phenol, 2,2'-(6-phenyl-s-triazine-2,4-diyl)bis[5-(3-chloropropoxy)-
      (7CI, 8CI)  (CA INDEX NAME)
FS    3D CONCORD
MF    C27 H25 Cl2 N3 O4
LC    STN Files:   BEILSTEIN*, CA, CAOLD, CAPLUS
          (*File contains numerically searchable property data)
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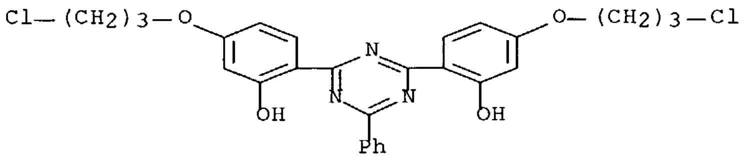

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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

                 2 REFERENCES IN FILE CA (1907 TO DATE)
                 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)
                 1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE    1:  72:121590

REFERENCE    2:  62:43974

L9    ANSWER 240 OF 267  REGISTRY  COPYRIGHT 2004 ACS on STN
RN    1974-79-4  REGISTRY
CN    Acetic acid, 2,2'-[[6-(4-methoxyphenyl)-1,3,5-triazine-2,4-
      diyl]bis[(3-hydroxy-4,1-phenylene)oxy]]bis-, diethyl ester (9CI)
      (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN    Acetic acid, [[6-(p-methoxyphenyl)-s-triazine-2,4-diyl]bis[(3-
      hydroxy-p-phenylene)oxy]]di-, diethyl ester (7CI, 8CI)
FS    3D CONCORD
MF    C30 H29 N3 O9
LC    STN Files:   BEILSTEIN*, CA, CAOLD, CAPLUS, USPATFULL
          (*File contains numerically searchable property data)
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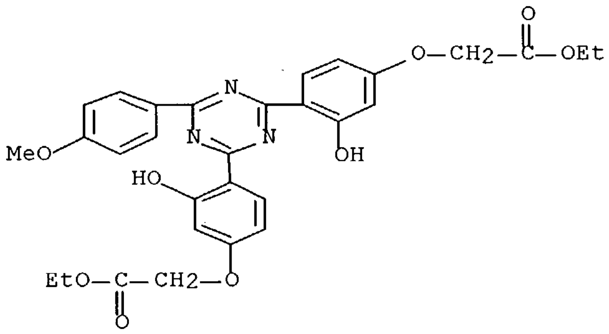

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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**
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                 4 REFERENCES IN FILE CA (1907 TO DATE)
                 4 REFERENCES IN FILE CAPLUS (1907 TO DATE)
                 1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE   1:  138:107643

REFERENCE   2:  130:13998

REFERENCE   3:  72:121590

REFERENCE   4:  62:43974

L9    ANSWER 241 OF 267  REGISTRY  COPYRIGHT 2004 ACS on STN
RN    1909-42-8  REGISTRY
CN    Phenol, 5-(2-butenyloxy)-2-(4,6-di-2,4-xylyl-s-triazin-2-yl)- (7CI,
      8CI)  (CA INDEX NAME)
FS    3D CONCORD
MF    C29 H29 N3 O2
LC    STN Files:   BEILSTEIN*, CA, CAOLD, CAPLUS
          (*File contains numerically searchable property data)
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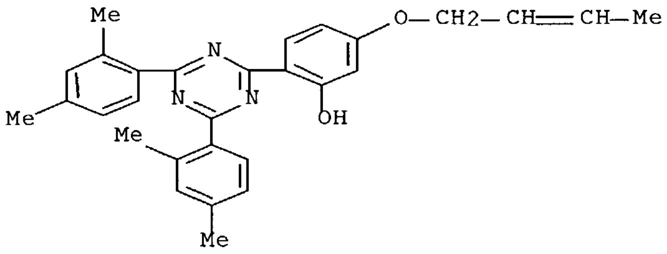

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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

                 2 REFERENCES IN FILE CA (1907 TO DATE)
                 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)
                 1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE   1:  72:121590

REFERENCE   2:  62:43974

L9    ANSWER 249 OF 267  REGISTRY  COPYRIGHT 2004 ACS on STN
RN    1908-77-6  REGISTRY
CN    Phenol, 2,2'-[6-(p-tert-butylphenyl)-s-triazine-2,4-diyl]bis[5-
      (benzyloxy)- (7CI, 8CI)  (CA INDEX NAME)
FS    3D CONCORD
MF    C39 H35 N3 O4
LC    STN Files:   BEILSTEIN*, CA, CAOLD, CAPLUS
          (*File contains numerically searchable property data)
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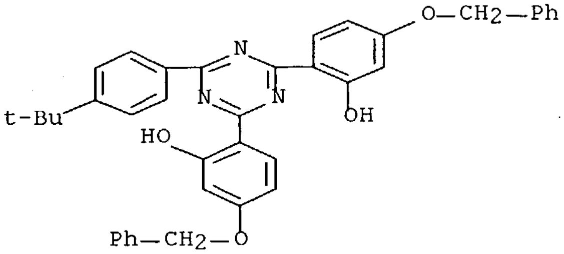

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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

               2 REFERENCES IN FILE CA (1907 TO DATE)
               2 REFERENCES IN FILE CAPLUS (1907 TO DATE)
               1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE   1:  72:121590

REFERENCE   2:  62:43974

L9   ANSWER 252 OF 267  REGISTRY  COPYRIGHT 2004 ACS on STN
RN   1820-29-7  REGISTRY
CN   Phenol, 2-(4,6-di-2,4-xylyl-s-triazin-2-yl)-5-ethoxy- (7CI, 8CI)
     (CA INDEX NAME)
FS   3D CONCORD
MF   C27 H27 N3 O2
LC   STN Files:   BEILSTEIN*, CA, CAOLD, CAPLUS
         (*File contains numerically searchable property data)
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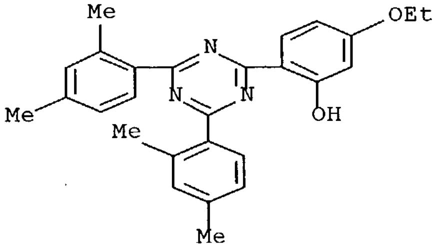

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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

               2 REFERENCES IN FILE CA (1907 TO DATE)
               2 REFERENCES IN FILE CAPLUS (1907 TO DATE)
               1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE   1:  72:79103

REFERENCE   2:  62:51742

L9   ANSWER 254 OF 267  REGISTRY  COPYRIGHT 2004 ACS on STN
RN   1668-53-7  REGISTRY
CN   1,3-Benzenediol, 4-[4,6-bis(2,4-dimethylphenyl)-1,3,5-triazin-2-yl]-
```

```
     (9CI)  (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN   Resorcinol, 4-(4,6-di-2,4-xylyl-s-triazin-2-yl)- (7CI, 8CI)
OTHER NAMES:
CN   2-(2,4-Dihydroxyphenyl)-4,6-(2,4-dimethylphenyl)-1,3,5-triazine
CN   2-(2,4-Dihydroxyphenyl)-4,6-bis(2,4-dimethylphenyl)-1,3,5-triazine
CN   2-(2,4-Dihydroxyphenyl)-4,6-bis-(2,4-dimethylphenyl)-s-triazine
FS   3D CONCORD
MF   C25 H23 N3 O2
LC   STN Files:   BEILSTEIN*, CA, CAOLD, CAPLUS, CASREACT, CHEMLIST,
       IFICDB, IFIPAT, IFIUDB, TOXCENTER, USPAT2, USPATFULL
         (*File contains numerically searchable property data)
     Other Sources:   NDSL**, TSCA**
         (**Enter CHEMLIST File for up-to-date regulatory information)
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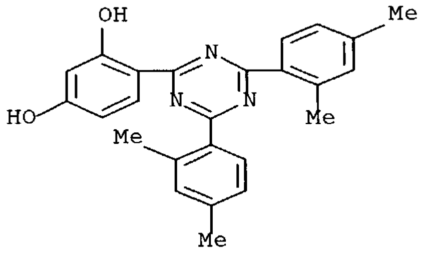

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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

              55 REFERENCES IN FILE CA (1907 TO DATE)
               4 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
              55 REFERENCES IN FILE CAPLUS (1907 TO DATE)
               2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE   1:  140:84992

REFERENCE   2:  139:371959

REFERENCE   3:  139:134313

REFERENCE   4:  139:118129

REFERENCE   5:  139:60361

REFERENCE   6:  139:60360

REFERENCE   7:  138:73277

REFERENCE   8:  137:354718

REFERENCE   9:  137:338627

REFERENCE  10:  135:243918

L9   ANSWER 255 OF 267  REGISTRY  COPYRIGHT 2004 ACS on STN
```

```
RN    1440-10-4  REGISTRY
CN    Acetic acid, [4-(4,6-di-2,4-xylyl-s-triazin-2-yl)-3-hydroxyphenoxy]-
      , 2-hydroxyethyl ester (7CI, 8CI)  (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN    Ethylene glycol, mono[[4-(4,6-di-2,4-xylyl-s-triazin-2-yl)-3-
      hydroxyphenoxy]acetate] (8CI)
FS    3D CONCORD
MF    C29 H29 N3 O5
LC    STN Files:   BEILSTEIN*, CA, CAOLD, CAPLUS
          (*File contains numerically searchable property data)
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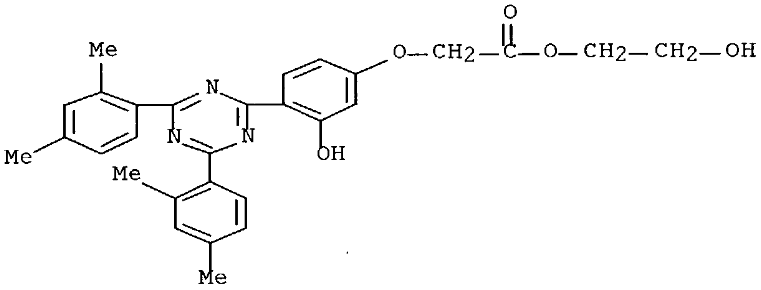

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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

               2 REFERENCES IN FILE CA (1907 TO DATE)
               2 REFERENCES IN FILE CAPLUS (1907 TO DATE)
               1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE   1:  72:121590

REFERENCE   2:  62:43974

L9    ANSWER 266 OF 267  REGISTRY  COPYRIGHT 2004 ACS on STN
RN    1439-99-2  REGISTRY
CN    Ethanol, 2-[4-[4-(p-tert-butylphenyl)-6-[2-hydroxy-4-[2-(2-
      hydroxyethoxy)ethoxy]phenyl]-s-triazin-2-yl]-3-hydroxyphenoxy]-
      (7CI, 8CI)  (CA INDEX NAME)
FS    3D CONCORD
MF    C31 H35 N3 O7
LC    STN Files:   BEILSTEIN*, CA, CAOLD, CAPLUS
          (*File contains numerically searchable property data)
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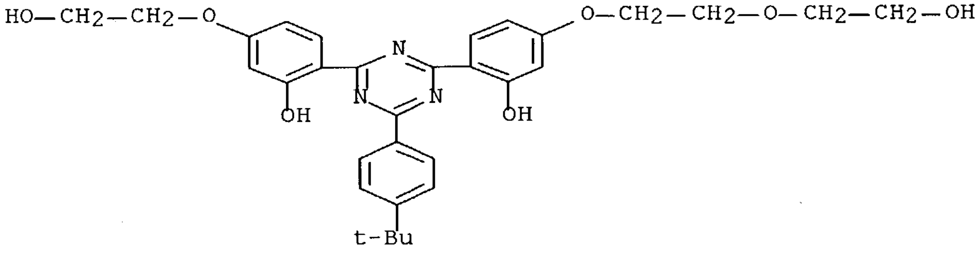

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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

               2 REFERENCES IN FILE CA (1907 TO DATE)
               2 REFERENCES IN FILE CAPLUS (1907 TO DATE)
               1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE   1:  72:121590

REFERENCE   2:  62:43974

     FILE 'CAOLD' ENTERED AT 12:32:26 ON 05 MAR 2004
L10          13 S L9

L10  ANSWER 1 OF 13  CAOLD  COPYRIGHT 2004 ACS on STN
AN   CA65:18583h  CAOLD
TI   reaction of aromatic amidines with aromatic aldehydes
AU   Haruki, Eiichi; Inaike, T.; Imoto, E.
IT    493-77-6    3114-52-1   3202-86-6   3411-88-9   7752-00-3
     7752-01-4   7753-01-7   7753-02-8   7753-05-1   7753-06-2
     7753-07-3   7753-08-4  10573-37-2  10573-38-3  10573-39-4
     10573-40-7  10573-41-8  10573-43-0  10573-44-1  10573-45-2
     13221-45-9  13221-46-0

L10  ANSWER 2 OF 13  CAOLD  COPYRIGHT 2004 ACS on STN
AN   CA65:18583f  CAOLD
TI   Friedel-Crafts reaction of chloro-s-triazines with aromatic compds.
     and the synthesis of their derivs. - (II) reaction with anisole and
     demethylation of its reaction products
AU   Ishikawa, Tomomichi; Ishii, T.; Kanai, Y.
IT   7753-12-0   7753-13-1   7753-14-2   7753-15-3   7785-07-1
     7785-08-2  10013-22-6

L10  ANSWER 3 OF 13  CAOLD  COPYRIGHT 2004 ACS on STN
AN   CA65:878b  CAOLD
TI   poly(vinyl chloride) (rigid), synergistic heat- and
     light-stabilizing compns.
PA   American Cyanamid Co.
DT   Patent
     PATENT NO.    KIND         DATE
     ------------  -----------  ----
PI   NL 6508885
     BE 666349
IT    110-30-5    117-99-7    120-40-1    131-57-7    142-78-9
     680-31-9    922-64-5    1843-21-6   2664-42-8   3405-72-9   3886-90-6
     4116-00-1   4441-12-7   4507-97-5   6768-23-6  10096-91-0
     13023-07-9  13023-09-1  13023-10-4  13023-12-6  13155-10-7
     13288-50-1  13288-51-2  13288-53-4  13288-54-5  13400-06-1
     24988-16-7

L10  ANSWER 4 OF 13  CAOLD  COPYRIGHT 2004 ACS on STN
AN   CA63:8356b  CAOLD
TI   ketene derivs. - (VIII) ω-dialkyl(aryl)amino-ω-
     methylthioquinone methides
AU   Gompper, Rudolf; Schmidt, R.
IT   2963-66-8   3202-77-5   3202-78-6   3202-79-7   3202-80-0
     3202-81-1   3202-82-2   3202-83-3   3202-84-4   3202-85-5
     3202-86-6   3202-87-7   3202-96-8   3202-97-9   3202-98-0
     3202-99-1   3411-86-7   3411-95-8   3556-29-4   4472-47-3
     4645-62-9  53929-53-6  98175-95-2  98963-19-0

L10  ANSWER 5 OF 13  CAOLD  COPYRIGHT 2004 ACS on STN
AN   CA62:16279a  CAOLD
TI   2,4-diamino-6-halofluoromethyl-1,3,5-triazines
AU   Kretov, A. E.; Davydov, A. V.
DT   Patent
TI   hydroxyphenyl-1,3,5-triazines
PA   CIBA Ltd.
DT   Patent
     PATENT NO.    KIND          DATE
     ------------  -----------   ----
PI   BE 639329
     DE 1216874
     FR 1381452
     GB 1033387
     GB 1033388
     NL 299880
     US 3242175                  1966
PI   SU 168298
IT   1439-98-1   1440-03-5   2125-25-9
     4000-80-0   4000-81-1   4000-82-2
     4000-90-2   4508-22-9   4575-97-7
     4575-98-8   4604-25-5   4635-01-2
     4804-95-9

L10  ANSWER 6 OF 13  CAOLD  COPYRIGHT 2004 ACS on STN
AN   CA62:10620g  CAOLD
TI   polymeric condensation chelates of tris(2-hydroxyphenyl or
     alkylphenyl)-s-triazine and a B compound
AU   Johns, Iral B.; Di Pietro, H. R.
PA   Monsanto Research Corp.
DT   Patent
IT   4507-97-5

L10  ANSWER 7 OF 13  CAOLD  COPYRIGHT 2004 ACS on STN
AN   CA62:9155g  CAOLD
TI   4-(2-hydroxy-4-alkoxyphenyl)-2,6-bis(2,4-dimethylphenyl)-1,3,5-
     triazines
PA   CIBA Ltd.
DT   Patent
     PATENT NO.    KIND          DATE
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PI   BE 639330
     DE 1215712
     FR 1379138
     NL 299881
IT   1237-53-2   1668-53-7   1820-28-6
     1820-29-7   2725-22-6   3882-65-3

L10  ANSWER 8 OF 13  CAOLD  COPYRIGHT 2004 ACS on STN
AN   CA62:7783c  CAOLD
TI   3,4-dihydro-2H-1,2,4-benzothiadiazine 1,1-dioxide derivs.
PA   CIBA Corp.
DT   Patent
TI   derivs. of 3,4-dihydro-2H-1,2,4-benzothiadiazine 1,1-dioxide
```

```
AU   De Stevens, George; Werner, L. H.
DT   Patent
     PATENT NO.    KIND          DATE
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PI   US 3163643                  1964
IT   1237-53-2    1440-10-4   1672-31-7

L10  ANSWER 9 OF 13  CAOLD  COPYRIGHT 2004 ACS on STN
AN   CA62:7782b  CAOLD
TI   hydroxyphenyl-1,3,5-triazines
PA   CIBA Ltd.
DT   Patent
     PATENT NO.    KIND          DATE
     ------------  -----------   ----
PI   NL 6400983
     BE 643432
     DE 1216875
     US 3244708                  1966
IT   1439-98-1    1439-99-2   1440-00-2
     1440-01-3    1440-02-4   1440-03-5
     1440-04-6    1440-05-7   1440-06-8
     1440-07-9    1440-08-0   1440-09-1
     1668-53-7    1908-75-4   1908-76-5
     1908-77-6    1908-78-7   1908-79-8
     1909-36-0    1909-37-1   1909-38-2
     1909-40-6    1909-41-7   1909-42-8
     1974-79-4    2125-23-7   2125-24-8
     2125-25-9    2125-26-0   2125-27-1
     2125-28-2    2125-29-3   2125-30-6
     2125-31-7    3866-22-6   3949-27-7
     3949-28-8    4010-13-3   4018-89-7
     4551-31-9

L10  ANSWER 10 OF 13  CAOLD  COPYRIGHT 2004 ACS on STN
AN   CA59:8765h  CAOLD
TI   triazine stabilizers for polymers against ultraviolet rays
AU   Hardy, William B.; Milionis, J. P.; Pinto, F. G.
PA   American Cyanamid Co.
DT   Patent
     PATENT NO.    KIND          DATE
     ------------  -----------   ----
PI   BE 614726
     GB 975966
     US 3118887                  1964
     US 3268474                  1966
IT   1440-00-2    2125-23-7  13681-75-9
     17419-37-3   38369-95-8   40530-14-1   90723-85-6
     96075-83-1 100025-60-3 101358-59-2 101358-62-7 103734-29-8
     103734-33-4 103734-35-6 103734-36-7 106764-47-0 107385-09-1
     107387-07-5

L10  ANSWER 11 OF 13  CAOLD  COPYRIGHT 2004 ACS on STN
AN   CA59:1639e  CAOLD
TI   N-allylation of N compds. with allyl alc.
AU   Hopff, Heinrich; Luessi, H.
IT   3202-86-6    3202-88-8   3411-88-9   16669-63-9

L10  ANSWER 12 OF 13  CAOLD  COPYRIGHT 2004 ACS on STN
```

```
AN    CA57:828b   CAOLD
TI    coordination compds. of tris(2-hydroxyphenyl)-s-triazine and derivs.
AU    Johns, Iral B.; Di Pietro, H. R.
IT     611-20-1    4507-97-5   5715-02-6 106478-43-7 106952-59-4
      107064-01-7 107156-23-0 108755-58-4

L10   ANSWER 13 OF 13   CAOLD   COPYRIGHT 2004 ACS on STN
AN    CA54:2240f  CAOLD
TI    cleavage of mols. by catalytic hydrogenation - (XX) catalytic
      hydrogenation of salicylonitrile
AU    Tanaka, Masaru
IT     611-20-1    4507-97-5 114536-52-6

      (FILE 'CASREACT' ENTERED AT 12:33:24 ON 05 MAR 2004)
L14               STR
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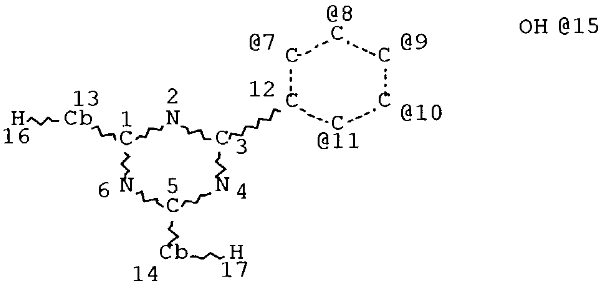

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VPA 15-7/8/9/10/11 U
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
GGCAT    IS UNS   AT   13
GGCAT    IS UNS   AT   14
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS   17

STEREO ATTRIBUTES: NONE
L15 (          14)SEA FILE=CASREACT SSS FUL L14 (     49 REACTIONS)
L16               STR
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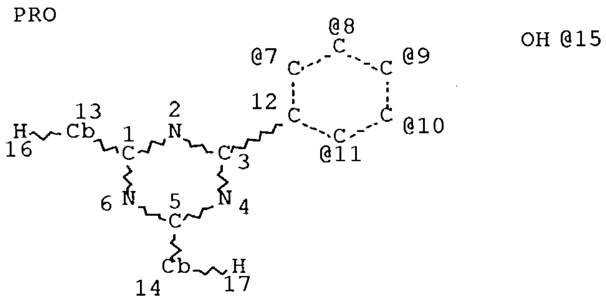

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VPA 15-7/8/9/10/11 U
NODE ATTRIBUTES:
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DEFAULT MLEVEL IS ATOM
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GGCAT   IS UNS  AT  14
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS  17

STEREO ATTRIBUTES: NONE
L17          14 SEA FILE=CASREACT SUB=L15 SSS FUL L16 (    49 REACTIONS)

100.0% DONE      49 VERIFIED      49 HIT RXNS                     14 DOCS
SEARCH TIME: 00.00.01

L17  ANSWER 1 OF 14  CASREACT  COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER:         135:166845  CASREACT Full-text
TITLE:                    Preparation of dihydroxyphenyltriazines
INVENTOR(S):              Tobita, Etsuo; Ayabe, Takashi; Ishikawa,
                          Shinichi; Kawaragi, Saeko
PATENT ASSIGNEE(S):       Asahi Denka Kogyo K. K., Japan
SOURCE:                   Jpn. Kokai Tokkyo Koho, 6 pp.
                          CODEN: JKXXAF
DOCUMENT TYPE:            Patent
LANGUAGE:                 Japanese
FAMILY ACC. NUM. COUNT:   1
PATENT INFORMATION:

     PATENT NO.       KIND  DATE           APPLICATION NO.  DATE
     ---------------  ----  --------       ---------------  --------
     JP 2001220385     A2   20010814       JP 2000-29996    20000208
PRIORITY APPLN. INFO.:                     JP 2000-29996    20000208
OTHER SOURCE(S):          MARPAT 135:166845
GI
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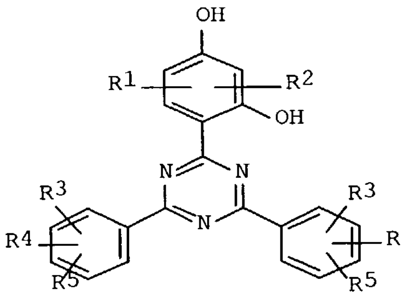

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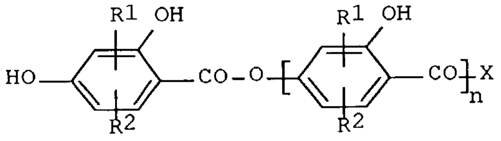
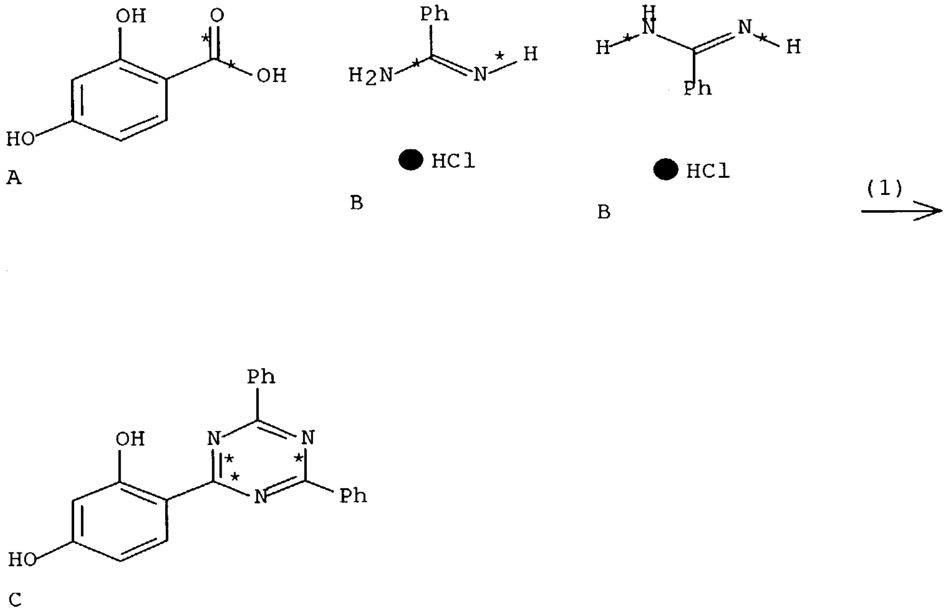


II

AB Title compds. I (R1, R2 = H, C1-18 alkyl, alkenyl, alkoxy, halo, OH; R3-R5 = H, C1-18 alkyl, alkoxy, halo, OH) are prepared by reaction of resorcin ester oligomers II (R1, R2 = same as I; X = Cl, OH, PhO, C1-18 alkoxy; n = 2-1000) with R3R4R5C6H2C(NH2):NH (R3-R5 = same as I). Resorcylic acid was oligomerized in the presence of DMF and POCl3 in PhMe at 100° for 8 h to give 94% oligomer, which was reacted with benzamidine hydrochloride in the presence of NEt3 in acetonitrile at 75° for 20 h to give 91% 2-(2,4-dihydroxyphenyl)-4,6-diphenyl-1,3,5-triazine.

RX(1) OF 1   A + 2 B ===> **C**



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RX(1)      RCT  A 89-86-1

              STAGE(1)
                 RGT   D 10025-87-3 POCl3, E 68-12-2 DMF
                 SOL   108-88-3 PhMe

              STAGE(2)
                 RCT   B 1670-14-0
                 RGT   F 121-44-8 Et3N
                 SOL   75-05-8 MeCN
           PRO   C 38369-95-8
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L17 ANSWER 2 OF 14 CASREACT COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 134:222517 CASREACT Full-text
TITLE: Preparation of biphenyls and aromatic olefins via Suzuki or Heck coupling reactions using allylpalladium catalysts.
INVENTOR(S): Tinkl, Michael; Hafner, Andreas

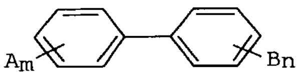
PATENT ASSIGNEE(S): Ciba Specialty Chemicals Holding Inc., Switz.
SOURCE: PCT Int. Appl., 25 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001016057	A1	20010308	WO 2000-EP8036	20000817

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: EP 1999-810774 19990827
OTHER SOURCE(S): MARPAT 134:222517
GI



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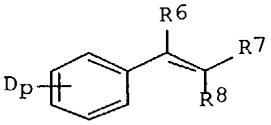
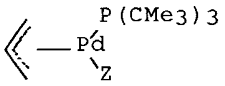


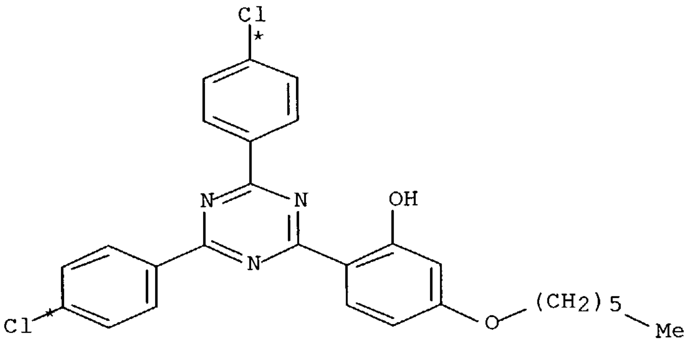
II



III

AB Title compds. (I, II; A, B, D = substituent; m, n, p = 0-5; R6, R7, R8 = H, substituent), were prepared by coupling of arenes bearing leaving groups with (1) arylboronic acids or esters thereof or with R6HC:CR7R8 in the presence of allylpalladium catalysts III (Z = Cl, Br, iodo). Thus, μ-chloro(tri-tert-butylphosphino)(η3- allyl)palladium(II) (preparation given), K_2CO_3, $PhB(OH)_2$, and 3-chloroanisole were refluxed 60 min. in xylene to give >99% 3-methoxybiphenyl.

RX(3) OF 6 I + 2 J ===> **K**



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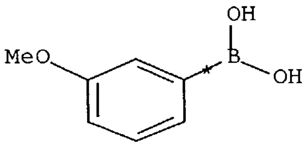


2 J

$\xrightarrow{(3)}$

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

RX(3) RCT I 244159-78-2

STAGE(1)
SOL 1330-20-7 Xylene

STAGE(2)
RCT J 10365-98-7
RGT D 584-08-7 K2CO3
CAT 68392-00-7 Palladium, chloro(η3-2-propenyl)[tris(1,1-dimethylethyl)phosphine]-
PRO K **244159-76-0**

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

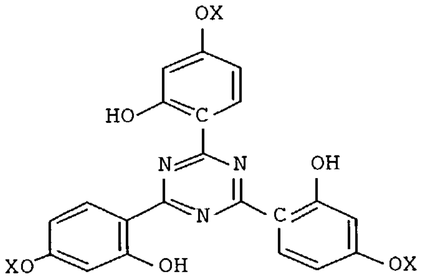
L17 ANSWER 3 OF 14 CASREACT COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 129:235428 CASREACT Full-text
TITLE: Sunscreen compositions
INVENTOR(S): Huber, Ulrich
PATENT ASSIGNEE(S): F. Hoffmann-La Roche A.-G., Switz.
SOURCE: Eur. Pat. Appl., 21 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 863145	A2	19980909	EP 1998-103244	19980225
EP 863145	A3	20000607		

EP 863145	B1	20031001		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
US 5976512	A	19991102	US 1998-34616	19980217
CN 1192441	A	19980909	CN 1998-103892	19980219
CN 1091771	B	20021002		
AU 9855419	A1	19980903	AU 1998-55419	19980220
AU 735412	B2	20010705		
JP 10251273	A2	19980922	JP 1998-44921	19980226
NO 9800841	A	19980904	NO 1998-841	19980227
BR 9800799	A	20000314	BR 1998-799	19980302
TW 513417	B	20021211	TW 1998-87103078	19980303
PRIORITY APPLN. INFO.:			EP 1997-103434	19970303

OTHER SOURCE(S): MARPAT 129:235428

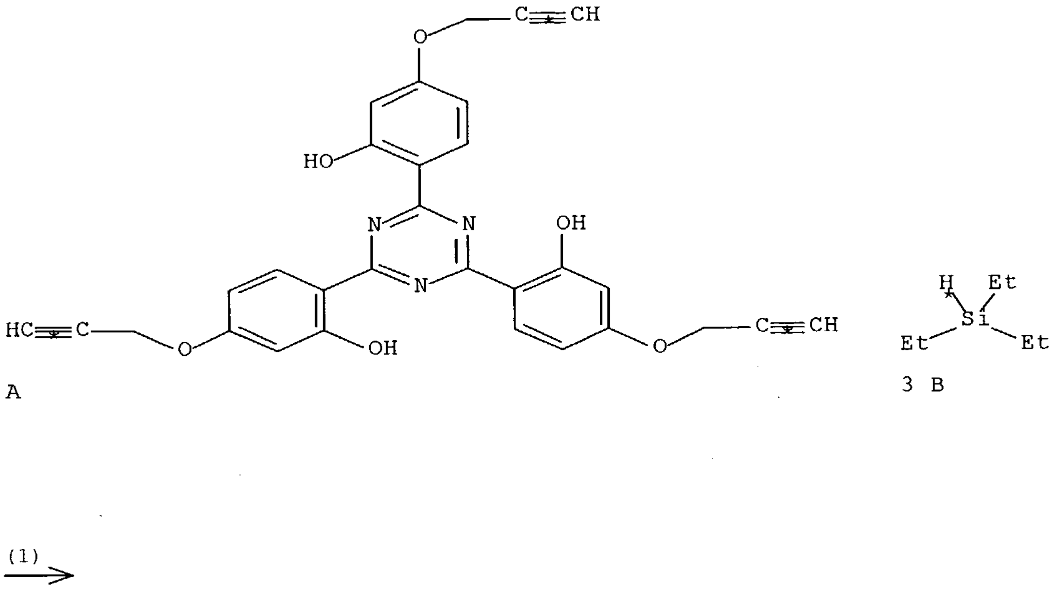
GI



I

AB Sym. triazines (I; X = YZ, Y, H; ≥2 X = YZ; Y = trialkylsilyl, C3-15 alkoxysilyl, oligosiloxane; Z = C3-12 aliphatic linker) are UV-A filter compds. which are soluble in organic solvents, especially those used in cosmetic formulations. I are stable towards light, heat, and humidity, are well tolerated by the skin, and are useful in sunscreen formulations for hair and skin. Thus, Et3SiH reacted with 5,5',5"-tris(allyloxy)-2,2',2"-(1,3,5-triazin-2,4,6- triyl)trisphenol in PhMe under Ar in the presence of Pt divinyltetramethyldisiloxane at 80° for 100 h to produce I [X = (CH2)3SiEt3] (II) in 40% yield. A sunscreen lotion was prepared containing II 3, Parsol MCX 6, Cetiol LC 10, Dermol 185 4, diethylene glycol monostearate 0.25, cetyl alc. 1, Me/Pr parabens 0.25, Na EDTA 0.1, Amphisol DEA 1, Pemulen TR-1 20, deionized H2O 48.6, propylene glycol 5, and 10% KOH 0.8%.

RX(1) OF 21 ...A + 3 B ===> **C**



* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

RX(1) RCT A 212774-94-2, B 617-86-7
PRO C **212774-88-4**
SOL 68-12-2 DMF

L17 ANSWER 4 OF 14 CASREACT COPYRIGHT 2004 ACS on STN

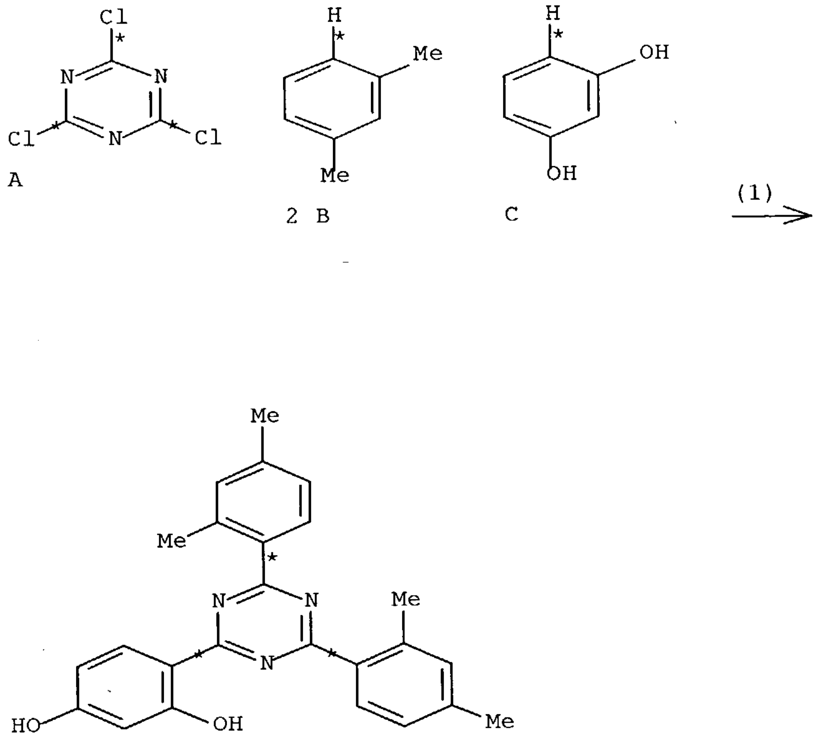
ACCESSION NUMBER:	128:217388 CASREACT Full-text
TITLE:	One-pot process for the preparation of 2-(2,4-dihydroxyphenyl)-4,6-bis(2,4-dimethylphenyl)-s-triazine
INVENTOR(S):	Orban, Ivan; Holer, Martin; Kaufmann, Andre
PATENT ASSIGNEE(S):	Ciba Specialty Chemicals Corp., USA
SOURCE:	U.S., 5 pp. CODEN: USXXAM
DOCUMENT TYPE:	Patent
LANGUAGE:	English
FAMILY ACC. NUM. COUNT:	2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5726310	A	19980310	US 1996-758316	19961203
CZ 291267	B6	20030115	CZ 1996-3657	19961212
SK 283174	B6	20030304	SK 1996-1601	19961212
PRIORITY APPLN. INFO.:			CH 1995-3541	19951214
			US 1996-758316	19961203

AB The title compound (I) is prepared by reacting cyanuric chloride with m-xylene at 0-110° in the presence of a Lewis acid and ≥1 inert chlorinated aromatic solvent to give the intermediate 2-chloro-4,6-bis(2,4-dimethylphenyl)-s-triazine. This intermediate, without being isolated, reacted with resorcinol to give I in good yield.

RX(1) OF 1 A + 2 B + C ===> **D**



D
YIELD 61%

```
RX(1)     RCT  A 108-77-0

            STAGE(1)
               RGT  E 7446-70-0 AlCl3
               SOL  95-50-1 o-C6H4Cl2

            STAGE(2)
               RCT  B 108-38-3

            STAGE(3)
               RGT  F 1310-73-2 NaOH
               SOL  7732-18-5 Water

            STAGE(4)
               RCT  C 108-46-3

            STAGE(5)
               RGT  F 1310-73-2 NaOH
               SOL  7732-18-5 Water
          PRO  D 1668-53-7
          NTE  one-pot procedure with each step claimed; extensive
               work-up described
```

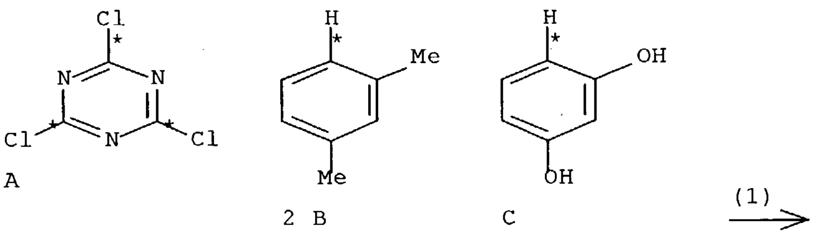
REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 5 OF 14 CASREACT COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 127:108947 CASREACT Full-text
TITLE: Preparation of 2-(2,4-dihydroxyphenyl)-4,6-bis-(2,4-dimethylphenyl)-s-triazine.
INVENTOR(S): Orban, Ivan; Holer, Martin; Kaufmann, Andre
PATENT ASSIGNEE(S): CIBA Ltd., Switz.
SOURCE: Eur. Pat. Appl., 10 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

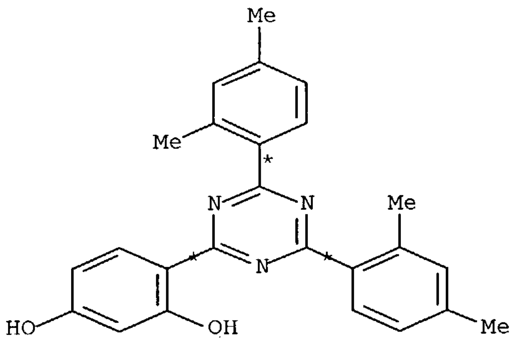
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 779280	A1	19970618	EP 1996-810845	19961203
EP 779280	B1	20020227		
R: AT, BE, DE, ES, FR, GB, IT, NL				
AT 213732	E	20020315	AT 1996-810845	19961203
AU 9674217	A1	19970619	AU 1996-74217	19961206
AU 725423	B2	20001012		
CA 2192774	AA	19970615	CA 1996-2192774	19961212
CN 1161331	A	19971008	CN 1996-121532	19961212
CN 1070187	B	20010829		
BR 9605986	A	19980901	BR 1996-5986	19961213
JP 09323980	A2	19971216	JP 1996-353216	19961216
PRIORITY APPLN. INFO.:			CH 1995-3541	19951214

AB Title compound (I) was prepared by (1) reaction of 1 mol cyanuric chloride (II) with 2.1-2.5 mol 1,3-xylene (III) at 0-110° in the presence of 2.3-3 mol Lewis acid/ in ≥1 chlorinated solvent, and (2) reaction of the resulting unisolated 2-chloro-4,6-bis-(2,4-dimethylphenyl)-s-triazine with 0.5-1 mol resorcinol/mol II at 0-100°. Thus, III was added over 10 h to a mixture of II and AlCl3 in 1,2-dichlorobenzene at 84-86° and then 34-36°. Resorcinol was then added to the mixture over 5 h at 34-48° followed by continued stirring and heating to give 60.5% I of 98.5% purity.

RX(1) OF 1 A + 2 B + C ===> **D**

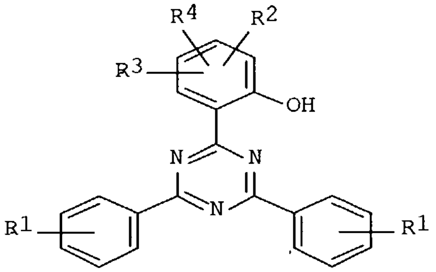


A 2 B C

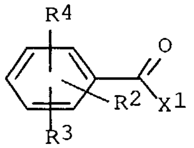


D
YIELD 61%

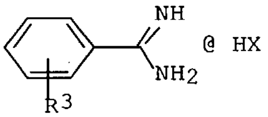
```
RX(1)       RCT  A 108-77-0, B 108-38-3, C 108-46-3
            PRO  D 1668-53-7
            CAT  7446-70-0 AlCl3
            SOL  95-50-1 o-C6H4Cl2


L17  ANSWER 6 OF 14  CASREACT  COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER:         122:314583  CASREACT Full-text
TITLE:                    Preparation of 2-hydroxyphenyl-4,6-diphenyl-
                          1,3,5-triazines.
INVENTOR(S):              Reinehr, Dieter; Bacher, Jean-Pierre
PATENT ASSIGNEE(S):       Ciba-Geigy A.-G., Switz.
SOURCE:                   Eur. Pat. Appl., 7 pp.
                          CODEN: EPXXDW
DOCUMENT TYPE:            Patent
LANGUAGE:                 German
FAMILY ACC. NUM. COUNT:   1
PATENT INFORMATION:

     PATENT NO.       KIND  DATE           APPLICATION NO.  DATE
     ---------------  ----  --------       ---------------  --------
     EP 649841         A1   19950426       EP 1994-810597   19941013
     EP 649841         B1   20010516
         R:  BE, CH, DE, ES, FR, GB, IT, LI, NL
     CA 2133938        AA   19950423       CA 1994-2133938  19941020
     JP 07188190       A2   19950725       JP 1994-256402   19941021
     US 6020490        A    20000201       US 1996-591044   19960125
PRIORITY APPLN. INFO.:                     CH 1993-3199     19931022
                                           US 1994-324828   19941018
OTHER SOURCE(S):          MARPAT 122:314583
GI
```



I



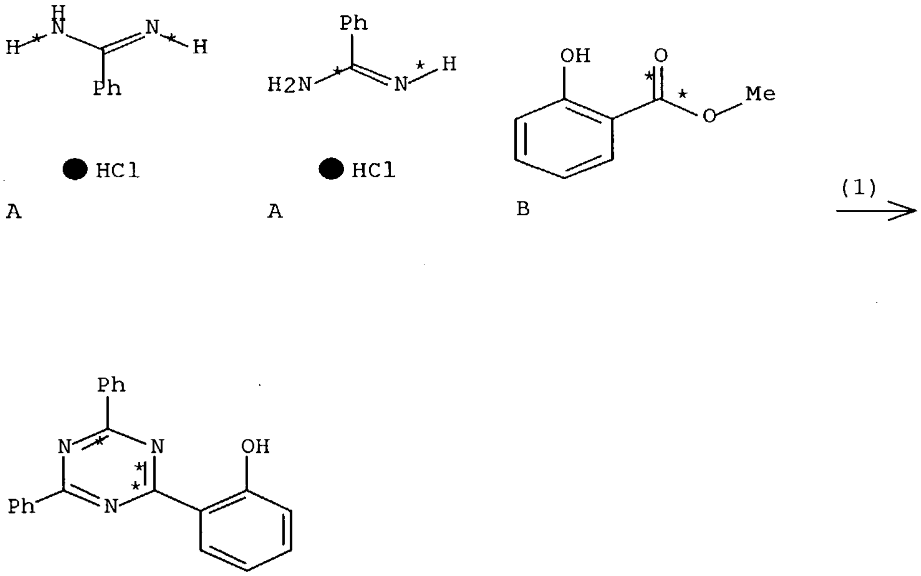
II



III

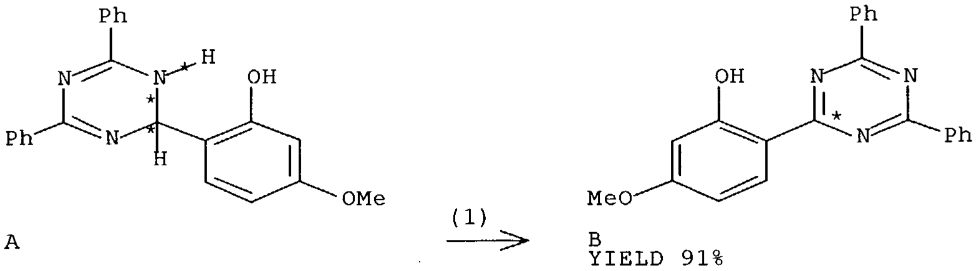
AB Title compds. (I; R1-R4 = H, halo, OH, alkyl, alkoxy), useful as UV absorbers for organic materials (no details), were prepared by reaction of salicylates (II; X1 = halo, OR5; R5 = alkyl) with benzamidines (III; X = halo). Thus, a mixture of benzamidine hydrocloride, Me salicylate, 30% NaOMe, and cyclohexane was heated to 90° with distillation of a MeOH/cyclohexane mixture; the distillation was interrupted and the mixture was stirred a further 22 h at 90-95° to give 73% I (R1-R4 = H).

RX(1) OF 4 2 A + B ===> **C**



C
YIELD 73%

```
RX(1)       RCT  A 1670-14-0, B 119-36-8
            RGT  D 124-41-4 NaOMe
            PRO  C 3202-86-6
            SOL  110-82-7 Cyclohexane


L17  ANSWER 7 OF 14  CASREACT  COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER:         122:314580  CASREACT Full-text
TITLE:                    Process for the preparation of
                          hydroxyphenyl-1,3,5-triazines.
INVENTOR(S):              Reihehr, Dieter; Bacher, Jean Pierre
PATENT ASSIGNEE(S):       Ciba-Geigy A.-G., Switz.
SOURCE:                   Eur. Pat. Appl., 11 pp.
                          CODEN: EPXXDW
DOCUMENT TYPE:            Patent
LANGUAGE:                 German
FAMILY ACC. NUM. COUNT:   1
PATENT INFORMATION:

     PATENT NO.        KIND  DATE          APPLICATION NO.   DATE
     ---------------   ----  --------      ---------------   --------
     EP 648754          A1   19950419      EP 1994-810587    19941006
     EP 648754          B1   20000712
         R:  BE, CH, DE, ES, FR, GB, IT, LI, NL
     US 5478935         A    19951226      US 1994-321492    19941012
     CA 2118068         AA   19950416      CA 1994-2118068   19941013
     JP 07188189        A2   19950725      JP 1994-248214    19941014
     US 5705643         A    19980106      US 1995-533422    19950925
PRIORITY APPLN. INFO.:                     CH 1993-3116      19931015
                                           US 1994-321492    19941012
OTHER SOURCE(S):          MARPAT 122:314580
GI


* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY -  AVAILABLE VIA OFFLINE PRINT *

AB    Title compds. (I; R1-R3 = H, halo, alkyl, alkoxy, cyano), useful as UV
      absorbers (no details), were prepared by treating dihydro derivs. II with
      compds. ordinarily used as reducing agents.  Thus, benzamidine
      hydrochloride in 30% methanolic NaOMe was treated with 2-hydroxy-4-
      methoxybenzaldehyde in DMF and the mixture was stirred 16 h at 38-40° to
      give 67.2% III.  III in DMF was treated with 40% aqueous Na bisulfite over
      30 min and the mixture was stirred 6 h at 48° to give 91.5% IIII.


RX(1) OF 9      ...A  ===>  B
```

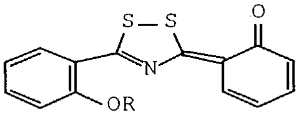


RX(1) RCT A 163392-76-5
RGT C 7631-90-5 NaHSO3
PRO B **106556-36-9**
SOL 7732-18-5 Water, 68-12-2 DMF
NTE KEY STEP

L17 ANSWER 8 OF 14 CASREACT COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:	121:83289 CASREACT Full-text
TITLE:	1,2,4-Dithiazoles with chinoid substituents as building blocks for the synthesis of heterocyclic compounds
AUTHOR(S):	Briel, Detlef; Leistner, Siegfried
CORPORATE SOURCE:	Fachbereich Biowiss., Univ. Leipzig, Leipzig, D-04103, Germany
SOURCE:	Archiv der Pharmazie (Weinheim, Germany) (1994), 327(6), 389-91 CODEN: ARPMAS; ISSN: 0365-6233
DOCUMENT TYPE:	Journal
LANGUAGE:	German

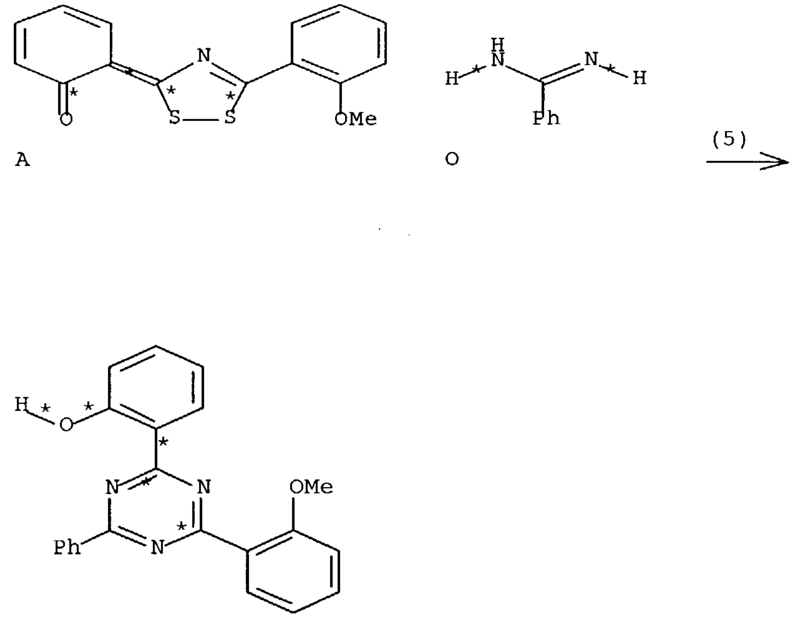
GI



I

AB 1,2,4-Dithiazoles I (R = H, Me) are useful building blocks for the syntheses of mono- and bicyclic heterocyclic compds. Especially substituted triazoles, oxadiazoles, pyrimidines, triazines, and benzoxazines are obtained. In these reactions I were used as CNC- or OC3NC-synthons.

RX(5) OF 6   A + O ===> **P**



P
YIELD 81%

```
RX(5)      RCT  A 138469-96-2, O 618-39-3
           RGT  J 124-41-4 NaOMe
           PRO  P 154825-51-1
           SOL  67-56-1 MeOH, 67-68-5 DMSO

L17  ANSWER 9 OF 14  CASREACT  COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER:         117:191877  CASREACT Full-text
TITLE:                    preparation of 2-(2',4'-dihydroxyphenyl)-4,6-
                          diaryl-s-triazines
INVENTOR(S):              Burdeska, Kurt
PATENT ASSIGNEE(S):       Ciba-Geigy A.-G., Switz.
SOURCE:                   Eur. Pat. Appl., 10 pp.
                          CODEN: EPXXDW
DOCUMENT TYPE:            Patent
LANGUAGE:                 German
FAMILY ACC. NUM. COUNT:   1
PATENT INFORMATION:

     PATENT NO.        KIND  DATE          APPLICATION NO.   DATE
     ---------------   ----  --------      ---------------   --------
     EP 497734          A1   19920805      EP 1992-810037    19920122
     EP 497734          B1   20000510
         R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, PT, SE
     AT 192743          E    20000515      AT 1992-810037    19920122
     ES 2146208         T3   20000801      ES 1992-810037    19920122
     JP 05070443        A2   19930323      JP 1992-13498     19920129
     JP 3067878         B2   20000724
     ZA 9200647         A    19920930      ZA 1992-647       19920130
     BR 9200303         A    19921006      BR 1992-303       19920130
     US 5182389         A    19930126      US 1992-828053    19920130
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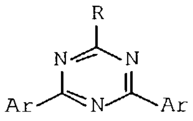
PRIORITY APPLN. INFO.: CH 1991-291 19910131
CH 1991-2788 19910923

OTHER SOURCE(S): MARPAT 117:191877

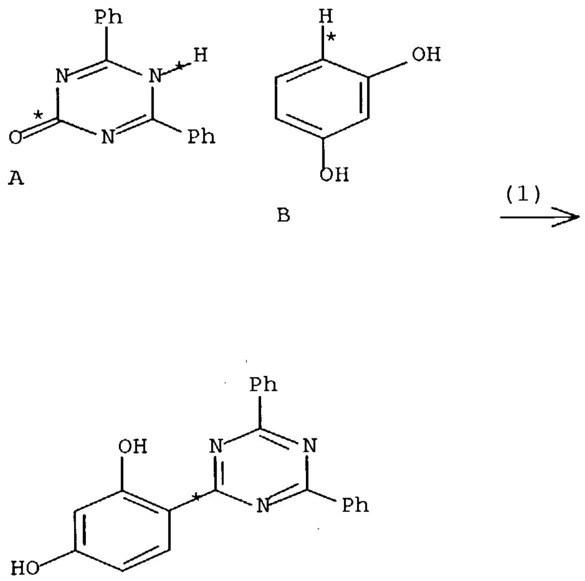
GI



I

AB Title compds. I [Ar = (substituted) Ph; R = 2,4-dihydroxyphenyl] were prepared by treatment of I [R = OH] with SOCl2 at 100-150° and subsequently with 1,3-dihydroxybenzene in the presence of a Lewis acid. By this method, I [Ar = Ph] was prepared in 88% yield.

RX(1) OF 1 A + B ===> **C**



C
YIELD 88%

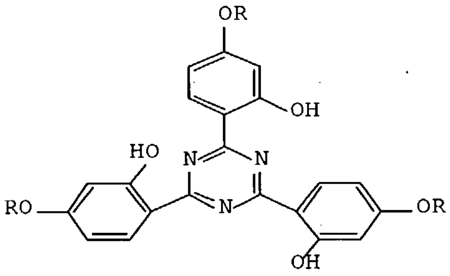
RX(1) RCT A 1917-44-8

STAGE(1)
RGT D 7719-09-7 SOCl2
SOL 1330-20-7 Xylene, 68-12-2 DMF

```
    STAGE(2)
       RCT  B 108-46-3
       CAT  7446-70-0 AlCl3
       SOL  1330-20-7 Xylene
  PRO  C **38369-95-8**
  NTE  125-130°; 80-85°
```

L17 ANSWER 10 OF 14 CASREACT COPYRIGHT 2004 ACS on STN

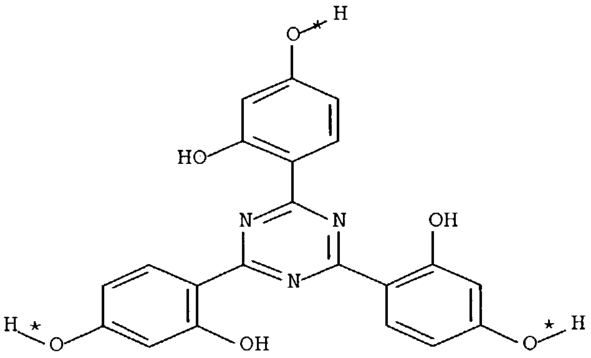
ACCESSION NUMBER: 115:92227 CASREACT Full-text
TITLE: Novel method of synthesizing 2,4,6-tris(2-hydroxyl-4-butoxylphenyl)triazine
AUTHOR(S): Pei, Weno; Gao, Yongjun; Jiang, Rishan
CORPORATE SOURCE: Dep. Chem., Yanbian Univ., Peop. Rep. China
SOURCE: Huaxue Shiji (1991), 13(1), 61-2
CODEN: HUSHDR; ISSN: 0258-3283
DOCUMENT TYPE: Journal
LANGUAGE: Chinese
GI



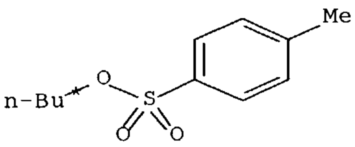
I

AB Stirring 2,4,6-tris(2,4-dihydroxyphenyl)-1,3,5-triazine (I, R = H) with 4-MeC6H4SO3Bu and Na2CO3 at 65° for 4 h gave 95% the title compound (I, R = Bu).

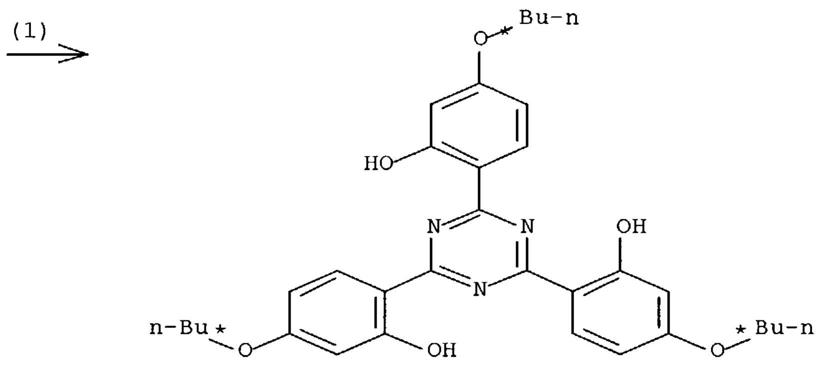
RX(1) OF 1 A + 3 B ===> **C**



A



3 B



```
C
YIELD 95%


RX(1)      RCT  A 2125-23-7, B 778-28-9
           RGT  D 497-19-8 Na2CO3
           PRO  C 3135-19-1
           SOL  7732-18-5 Water, 64-17-5 EtOH


L17  ANSWER 11 OF 14  CASREACT  COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER:        111:153846  CASREACT Full-text
TITLE:                   Preparation of reactive, nonyellowing triazines
                         useful as UV screening agents for polymers
INVENTOR(S):             Migdal, Cyril A.; Hines, John B.; Kluger, Edward
                         W.
PATENT ASSIGNEE(S):      Milliken Research Corp., USA
SOURCE:                  U.S., 6 pp.
                         CODEN: USXXAM
DOCUMENT TYPE:           Patent
LANGUAGE:                English
FAMILY ACC. NUM. COUNT:  1
PATENT INFORMATION:

     PATENT NO.        KIND  DATE          APPLICATION NO.   DATE
     ---------------   ----  --------      ---------------   --------
     US 4826978         A    19890502      US 1987-139342    19871229
     US 4962142         A    19901009      US 1988-270871    19881114
PRIORITY APPLN. INFO.:                     US 1987-139342    19871229
OTHER SOURCE(S):         MARPAT 111:153846
GI
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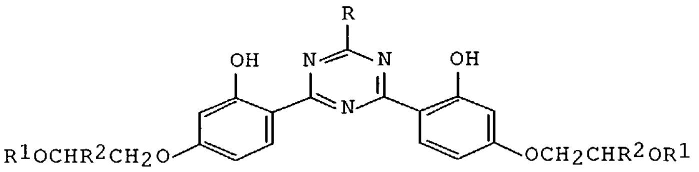
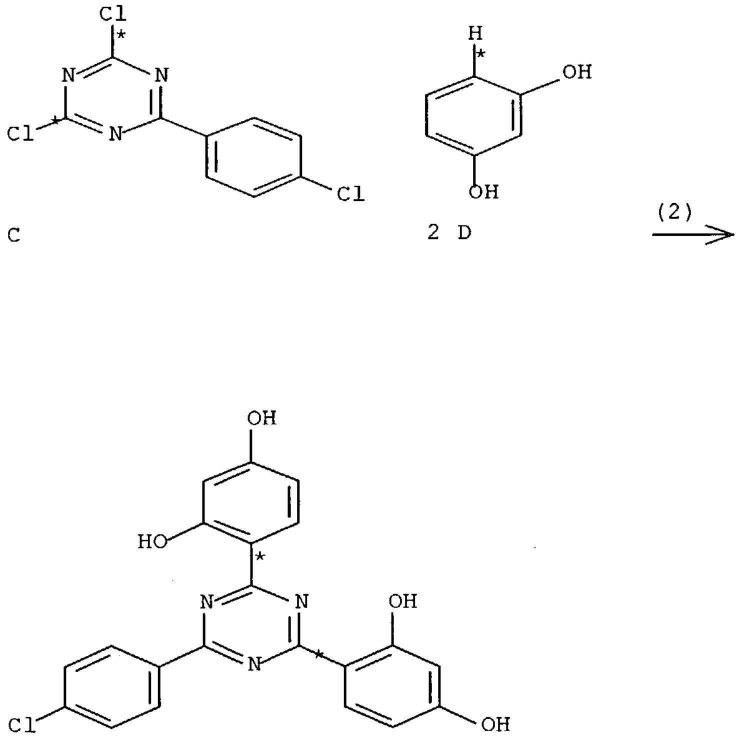


I

AB 2,2'-(1,3,5-Triazine-2,4-diyl)bis[5-ethoxyphenol] derivs. I (R = Ph bearing an electron-withdrawing substituent, especially Br, Cl, F; R1 = H, C2-7 acyl; R2 = H, Me) were prepared Thus, cyanuric chloride and AlCl3 were heated 18 h at 125° in PhCl to give 2,4-dichloro-6-(4-chlorophenyl)-1,3,5-triazine. AlCl3 was added to a mixture of the latter and resorcinol in PhNO2 at -10°, followed by stirring 16 h at room temperature and 4 h at 50°, to give 2-(4-chlorophenyl)-4,6-bis(2,4-dihydroxyphenyl)-1,3,5-triazine. This was etherified with ClCH2CH2OH in EtOCH2CH2OH to give I (R = 4-ClC6H4, R1 = R2 = H) (II). A polymer resin prepared from di-Me terephthalate, ethylene glycol, and 0.5 part II was clear yellow and absorbed light at 250-400 nm. Incorporation of II did not affect polymerization kinetics, nor did it sublime out or discolor the resin.

RX(2) OF 6 ...C + 2 D ===> **E**...



RX(2) RCT C 10202-46-7, D 108-46-3
PRO E **1440-03-5**

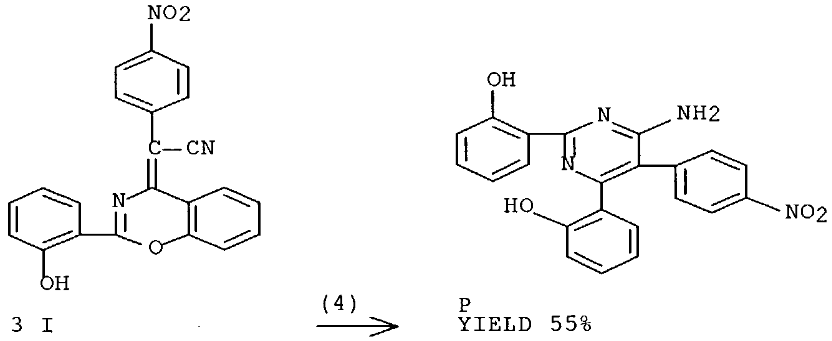
L17 ANSWER 12 OF 14 CASREACT COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 106:119825 CASREACT Full-text
TITLE: Ring transformation reactions of 1,2,4-dithiazolidine with o-quinonemethide structure to [1]benzopyrano[3,4-d]pyrimidine, pyrimidine, and thiazole derivatives
AUTHOR(S): Briel, D.; Leistner, S.; Wagner, G.
CORPORATE SOURCE: Sekt. Biowiss., Karl-Marx-Univ., Leipzig, Ger. Dem. Rep.
SOURCE: Pharmazie (1986), 41(4), 283-4
CODEN: PHARAT; ISSN: 0031-7144
DOCUMENT TYPE: Journal
LANGUAGE: German
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

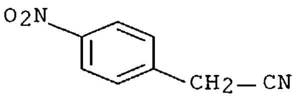
AB Benzopyranopyrimidinone I (RR1 = S, R2 = H, X = O) was prepd by the condensation of dithiazolidinylidenebis(cyclohexadienone) II with 1-(cyanoacetyl)-3,5-dimethylpyrazole, whereas, condensation of II with MeC(:NH)CH2CN gave I (R = Me, R1R2 = bond, X = NH). Aminolysis of benzoxazine III with R3NH2 (R3 = NH2, H) gave 76% triazole IV or 55% pyrimidine V resp.

RX(4) OF 5 3 I ===> P + K + **Q**

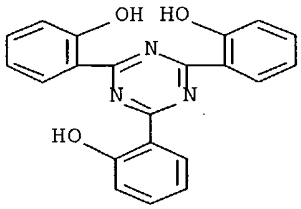


3 I

P
YIELD 55%



K
YIELD 37%



Q

RX(4) RCT I 90681-68-8
RGT R 7664-41-7 NH3
PRO P 107001-37-6, K 555-21-5, Q **4507-97-5**
SOL 68-12-2 DMF

L17 ANSWER 13 OF 14 CASREACT COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 106:4982 CASREACT Full-text

TITLE: Synthesis and properties of s-triazine derivatives. 4. Synthesis of 2,4,6-trisubstituted s-triazines containing crowded phenolic fragments

AUTHOR(S): Kelarev, V. I.; Yahia, F. Laauad; Karahanov, R. A.; Lunin, A. F.; Malova, O. V.

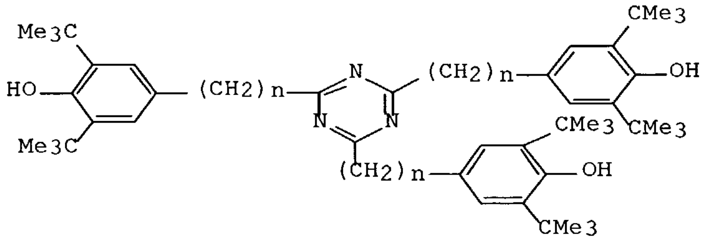
CORPORATE SOURCE: Inst. Neftekhim. Gazov. Prom., Moscow, 117917, USSR

SOURCE: Khimiya Geterotsiklicheskikh Soedinenii (1986), (1), 107-13
CODEN: KGSSAQ; ISSN: 0453-8234

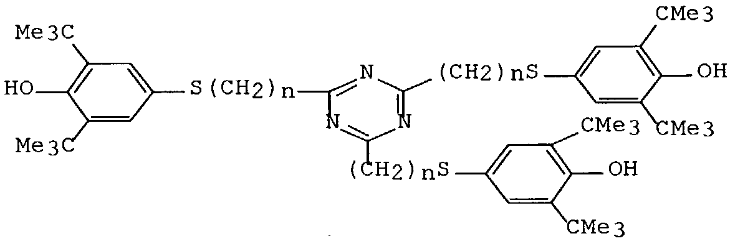
DOCUMENT TYPE: Journal

LANGUAGE: Russian

GI



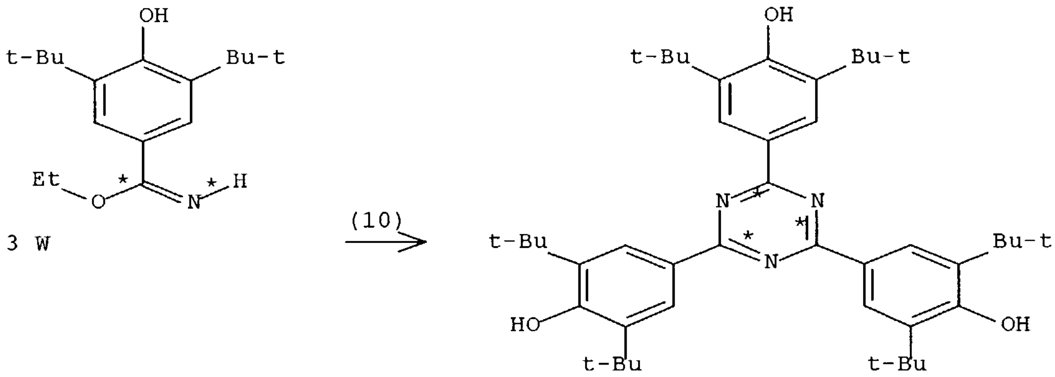
I



II

AB Conversion of 3,5,4-(Me3C)2HOC6H2X(CH2)nCN (n = 0-2 X = bond, S) into the Et imido esters and cyclization of these in the presence of their HCl salts gave 15-88% triazines I (n = 0-2) and II (n = 0-2).

RX(10) OF 24 3 W ===> **X**



3 W

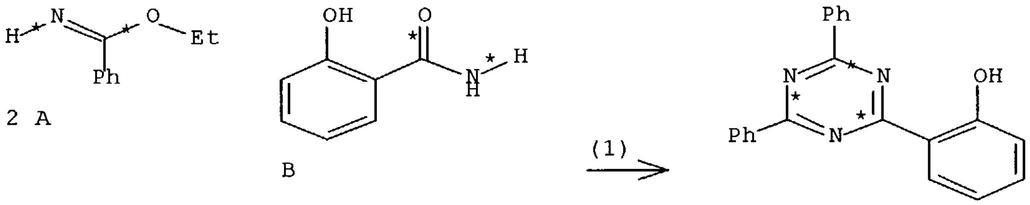
X

RX(10) RCT W 105648-45-1
RGT M 84654-55-7 Benzenecarboximidic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, ethyl ester, hydrochloride
PRO X **105648-49-5**

L17 ANSWER 14 OF 14 CASREACT COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 59:8995 CASREACT Full-text
TITLE: The reaction of salicylic acid, thiosalicylic acid, and salicylamide with free imido esters
AUTHOR(S): Ried, Walter; Stephan, Wolfgang
CORPORATE SOURCE: Univ. Frankfurt, Germany
SOURCE: Ber. (1963), 96, 1213-17
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
GI For diagram(s), see printed CA Issue.
AB o-HOC6H4CO2H (I) and o-HSC6H4CO2H (II) with free imido esters (III) yielded amidinium salicylates and thiosalicylates, resp. o-HOC6H4CONH2 (IV) was converted with a series of free III to the corresponding 2,4-disubstituted-6-(o-hydroxyphenyl)1,3,5-triazines (V). I (2.8 g.) in 15 cc. MeOH refluxed 5 h. with 0.04 mol of an appropriate III and evaporated, diluted with 60 cc. Et2O, and filtered gave the corresponding salicylate (cation, m.p., and % yield given): 3-cyanopropionamidinium, 165° (inserted at 160°) (MeOH), 95; 5-cyanovaleramidinium, 185° (decomposition)(MeOH), 80; phenylacetamidinium, 200° (decomposition)(H2O), 85; benzamidinium, 205° (decomposition) (H2O), 60. II (3.1 g.) gave similarly the corresponding thiosalicylates (same data given): phenylacetamidinium, 161° (decomposition)(EtOHEt2O), 60; benzamidinium, 250° (decomposition)(H2O),

40. PhC(:NH)OEt (6 g.), 2.4 g. BzOH, and 40 cc. dry Et2O kept 48 h. at room temperature and filtered yielded 0.8 g. benzamidinium benzoate, leaflets, m. 240° (H2O); benzamidinium picrate m. 235°. BzOH (2.4 g.) and 6.4 g. PhCH2C(NH)OEt heated 2.5 h. on the water bath, cooled, diluted with 40 cc. Et2O, and filtered yielded 1 g. phenylacetamidinium benzoate, leaflets, m. 200°; picrate m. 225°. IV (4.1 g.) and 0.06 mol III heated about 1 h. at 150° with the removal of the H2O and EtOH, cooled, diluted with 30 cc. MeOH, and filtered yielded about 40% corresponding V (substituents and m.p. given): PhCH2, 112° (MeOH); Ph, 246° (AcOH); p-MeC6H4, 254° (AcOH); p-O2NC6H4, 334° (C5H5N).

RX(1) OF 1   2 A + B ===> **C**



2 A

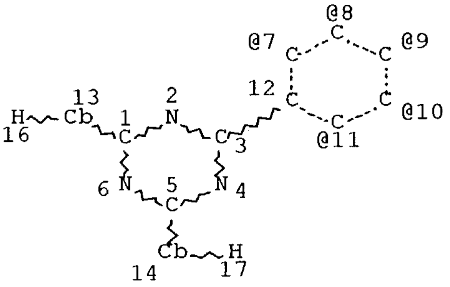
B

C
YIELD 40%

RX(1)   RCT A 825-60-5, B 65-45-2
          PRO C **3202-86-6**

(FILE 'DJSMDS, CHEMINFORMRX' ENTERED AT 12:34:34 ON 05 MAR 2004)

L14   STR



OH @15

VPA 15-7/8/9/10/11 U
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
GGCAT   IS UNS   AT 13
GGCAT   IS UNS   AT 14
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 17

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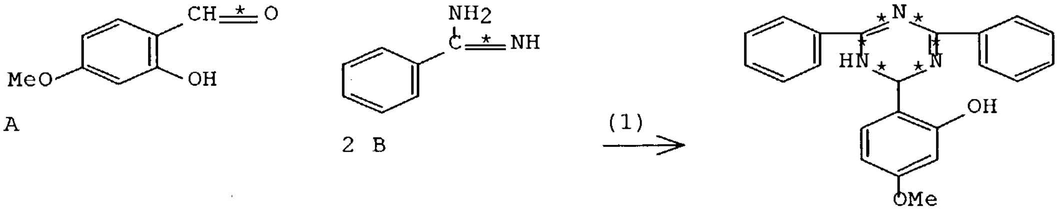
STEREO ATTRIBUTES: NONE
L18           3 SEA L14

L18  ANSWER 1 OF 3  DJSMDS COPYRIGHT 2004   THOMSON DERWENT on STN
ACCESSIONNUMBER:    1995:77323L  DJSMDS
TITLE:              1,3,5-TRIAZINES FROM ALDEHYDES AND 2 AMIDINE
                    MOLECULES VIA 1,2-DIHYDRO-1,3,5-TRIAZINES
PATENT ASSIGNEE:    Ciba Geigy AG
PATENT INFORMATION: EP 648754
DOCUMENT TYPE:      Patent
VOLUME/ISSUE:       21-10
OTHER SOURCE:       WPI 1995-148655
AN       1995:77323L  DJSMDS Full-text
AB        Cf. Synth.Meth. 21, 420. The method avoids use of environmentally
          unfriendly oxidizing agents such as chloranil, for the aromatization
          step. For further examples, see citation 1.


RX(1) OF 3     A  +  2 B  ===>  C
```

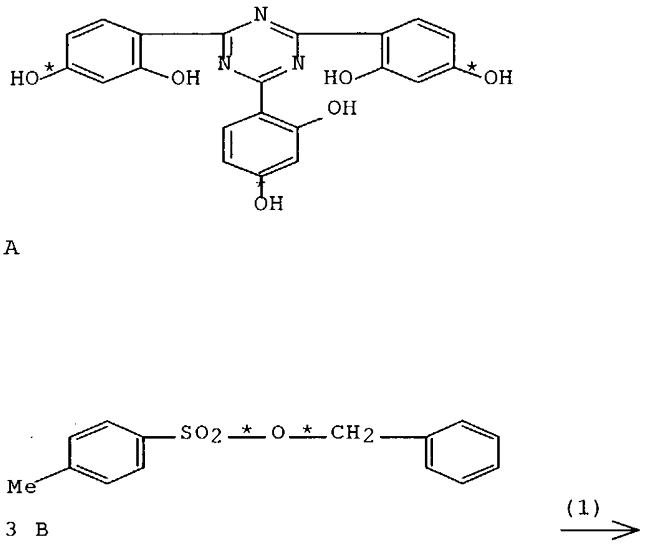


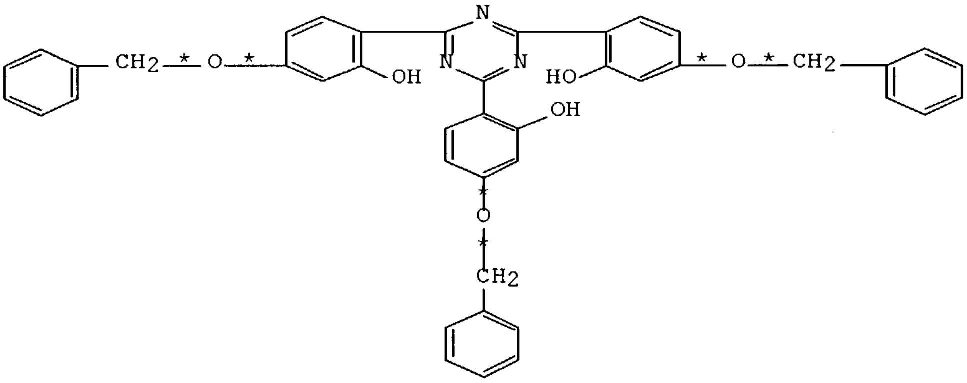
```
C
YIELD 67.2%


RX(1)      RCT  A, 12347; 69.4%
                B, 1157; Hydrochloride, 2 eq.
           SOL  23, DMF
                15, MeOH
           CAT  75, NaOMe; 30% Methanolic, 2 eq.
           PRO  C, 84920
           T    38.0 - 40.0  Cel
           TIM  16.0  hr
           CMT  Path A

L18  ANSWER 2 OF 3  DJSMDS COPYRIGHT 2004   THOMSON DERWENT on STN
ACCESSIONNUMBER:    1991:77034G  DJSMDS
TITLE:              PREFERENTIAL O-ALKYLATION OF PHENOLS WITH
                    P-TOLUENESULFONIC ACID ESTERS . RESORCINOL MONOETHERS
AUTHOR:             Pei, W.; Gao, Y.; Rishan, R.
SOURCE:             Huaxue Shiji, 13(1), p.61 (1991)
                    CODEN: HUSHDR    ISSN: 0258-3283
DOCUMENT TYPE:      Journal
VOLUME/ISSUE:       17-9
AN       1991:77034G  DJSMDS Full-text
AB        Cf. 1990:76300F. For further examples, see citation 1.


RX(1) OF 1     A  +  3 B  ===>  C
```





YIELD 95.0%

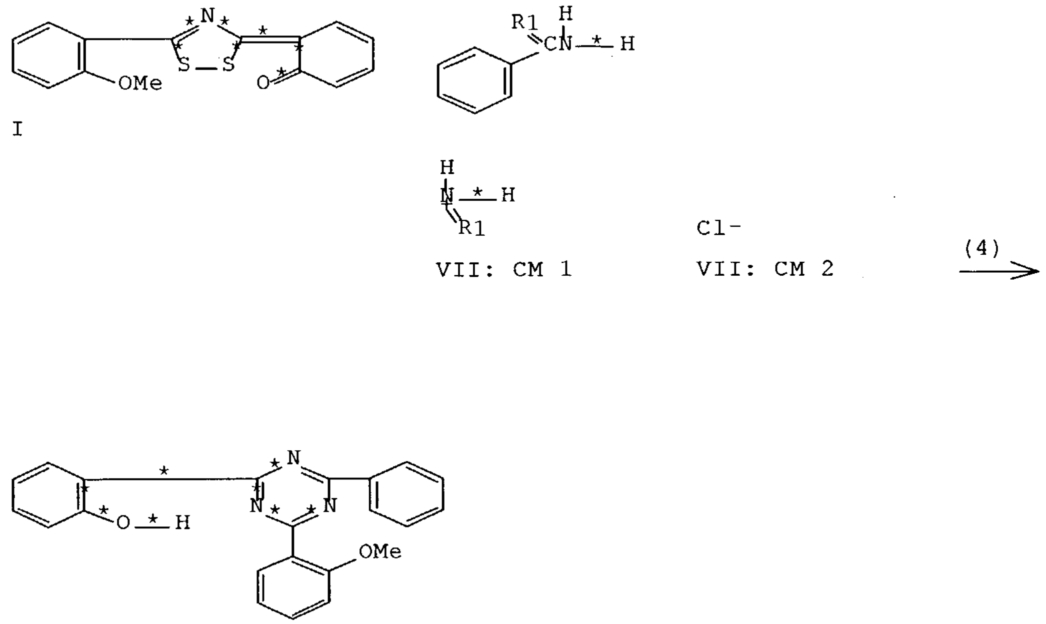
```
RX(1)     RCT  A, 42413
               B, 8578
          CAT  80, Na2CO3
          PRO  C, 42414
          T    65.0  Cel
          TIM  4.0  hr
          CMT  Path A
```

L18 ANSWER 3 OF 3 CHEMINFORMRX COPYRIGHT 2004 FIZ CHEMIE on STN

AN 199443190 CHEMINFORMRX

AB The use of the title comound (I) as a building block in the synthesis of mono- and bicyclic heterocyclic systems is demonstrated. A new synthetic path leading to 5-substituted pyrimidines (VI) is presented. Mechanistic considerations are made based on extended MS-data.

```
RX(4) OF 6      I  +  VII  ===>  VIII
```



I

VII: CM 1

VII: CM 2

VIII
YIELD 81.0%

```
RX(4)      RCT  I, 342126
                VII, 39930
           RGT  412 (124-41-4), MeONa
           SOL  123 (67-56-1), MeOH
           PRO  VIII, 342132
           YDS  81.0 %
           KW   aromatisation; alkylation; N-alkylation
           NTE  reaction:I (VII) -> VIII
           CMT  Ratio = 1:1 for products 1,2

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